



AIRTIGHT & NOISECHECK LIMITED

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NOISE IMPACT ASSESSMENT FOR

ARAMAO DEVELOPMENTS LTD

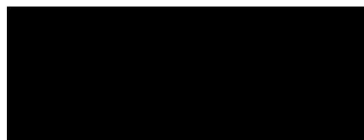
SITE ADDRESS

THE SWAN INN
JESSIE ROAD
BEDHAMPTON
HAVANT
HAMPSHIRE
PO9 3TH

ASSESSMENT DATE: 13th – 15th SEPTEMBER 2024

REPORT DATE: 16th SEPTEMBER 2024

Acoustic Engineer:



Michael Vine

Testing Date: 13th – 15th September 2024

AIRTIGHT & NOISECHECK BUILDING ACOUSTIC TESTING



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Customer Name:

Testing Date: 13th – 15th September 2024
Report Date: 16th September 2024

Site Address: Aramao Developments Ltd

The Swan Inn Public House
Jessie Road
Bedhampton
Hampshire
PO9 3TH

Acoustic Engineer:

Mr. Michael Vine

Equipment used:

Norsonic Environmental Analyser 140 BS EN IEC 61672-1 2013 Class 1 – Associated frequency analyser to BS EN IEC 61260: 1996 Class 1 – serial 1407126 – calibration due March 2026

Measurement Microphone (Nor 1225) – Serial Number 305215 – calibration due March 2026

Acoustic Calibrator - (Type 1251) – Serial No 31652, Calibration due November 2024

Measurement Procedure:

The purpose of this noise impact assessment is to assist with the condition release associated with the granted planning permission:

Application Number: APP/23/00588

Site Address: The Swan, Jessie Road, Havant, PO9 3TH

Proposal: Erection of 3 two-bed dwellings (Use Class C3) on the land adjacent to the public house, utilising new vehicular access, with associated parking and landscaping, including reconfiguration of beer garden and car park of the public house.

An unattended assessment measuring the current acoustic climate over a 48hour period was undertaken to determine the ambient noise levels at the proposed façade of the proposed development site, to the side of The Swan Inn Public House & to provide suitable mitigation measures for the future residents of the granted scheme. The 48hour assessment took place between 0903hrs on Friday 13th & Sunday 15th September 2024, the public house & garden was in use during this time period and the public house was functioning as normal.

The unattended assessment took measurements from the public house garden, car park and building. The microphone was positioned at the boundary of the current public house car park & public house garden and in direct line of sight of the venue, in the proposed location of the residential dwelling & garden area.

For the purposes of the noise associated with the public house garden and L_{Amax} noise levels, a range of acoustic criteria and noise data taken from other sites will be used to determine the impact on the proposed scheme.

The microphone was positioned at least 3.5m from any other reflective surface and in excess of 2m from the ground.

In addition to the above assessment, the public house plant was also monitored at source.



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Assessment Criteria:

The National Planning Policy Framework (NPPF) came into effect in March 2012 and was updated & published in December 2023. It replaced other documents such as PPG24. The NPPF provides a number of objectives and aims that are directed towards avoiding significant adverse impacts and reducing others on quality of life and health. This document states that:

Paragraph 180 states Planning policies and decisions should contribute to and enhance the natural and local environment by:

e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, considering relevant information such as river basin management plans.

Paragraph 191 Planning policies and decisions should also ensure that new development is appropriate for its location considering the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:

- (a) mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life [65](#);
- (b) identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason.

193. Planning policies and decisions should ensure that new development can be integrated effectively with existing businesses and community facilities (such as places of worship, pubs, music venues and sports clubs). Existing businesses and facilities should not have unreasonable restrictions placed on them as a result of development permitted after they were established. Where the operation of an existing business or community facility could have a significant adverse effect on new development (including changes of use) in its vicinity, the applicant (or 'agent of change') should be required to provide suitable mitigation before the development has been completed.

The Planning Practice Guidance has guidance on noise, date 22nd July 2019 and also has the noise hierarchy table as shown below. Paragraphs 009 & 011 are referenced later in this report.

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Response	Examples of outcomes	Increasing effect level	Action
No Observed Effect Level			
Not present	No Effect	No Observed Effect	No specific measures required
No Observed Adverse Effect Level			
Present and not intrusive	Noise can be heard, but does not cause any change in behaviour, attitude or other physiological response. Can slightly affect the acoustic character of the area but not such that there is a change in the quality of life.	No Observed Adverse Effect	No specific measures required
Lowest Observed Adverse Effect Level			
Present and intrusive	Noise can be heard and causes small changes in behaviour, attitude or other physiological response, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a small actual or perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
Significant Observed Adverse Effect Level			
Present and disruptive	The noise causes a material change in behaviour, attitude or other physiological response, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Present and very disruptive	Extensive and regular changes in behaviour, attitude or other physiological response and/or an inability to mitigate effect of noise leading to psychological stress, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory and non-auditory.	Unacceptable Adverse Effect	Prevent

NOEL – No Observed Effect Level This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to noise.

LOAEL – Lowest Observed Adverse Effect Level This is the level above which adverse effects on health and quality of life can be detected.

SOAEL – Significant Observed Adverse Effect Level This is the level above which significant adverse effects on health and quality of life occur.

The NPSE (Noise Policy Statement for England) states the following aims with respect to noise policy:

Through the effective management and control of environmental, neighbour and neighbourhood noise within the context of the Government policy on sustainable development:

- avoid significant adverse impacts on health and quality of life;
- mitigate and minimise adverse impacts on health and quality of life; and
- where possible, contribute to the improvement of health and quality of life.



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PROPG: PLANNING & NOISE (2017) NEW RESIDENTIAL DEVELOPMENT [PROPG 2017]

The ProPG Planning & Noise document was published in 2017, its development supported by the Institute of Acoustics, the Association of Noise Consultants, and the Chartered Institute of Environmental Health. The aim of the document is to provide practitioners with guidance on a recommended approach to the management of noise within the planning system in England.

ProPG advocates a systematic, proportionate risk-based, 2 stage approach which:

1. Encourages early consideration of noise issues;
2. Facilitates straightforward accelerated decision making for lower risk sites;
3. Assists proper consideration of noise issues where the acoustic environment is challenging.

A summary of the overall ProPG approach is included in Appendix B. The two sequential stages of the overall approach are:

1. Stage 1 – an initial noise risk assessment of the proposed development site; and
2. Stage 2 – a systematic consideration of four key elements.

The four key elements to be undertaken in parallel during Stage 2 are:

1. Element 1 – demonstrating a “Good Acoustic Design Process”;
2. Element 2 – observing internal “Noise Level Guidelines”;
3. Element 3 – undertaking an “External Amenity Area Noise Assessment”; and
4. Element 4 – consideration of “Other Relevant Issues”.

The approach is underpinned by the preparation and delivery of an “Acoustic Design Statement” [ADS]. The ADS is intended to conclude in the provision of one of the following four recommendations to the decision maker:

1. Planning consent may be granted without any need for noise conditions;
2. Planning consent may be granted subject to the inclusion of suitable noise conditions;
3. Planning consent should be refused on noise grounds in order to avoid significant adverse effects (“avoid”); or
4. Planning consent should be refused on noise grounds in order to prevent unacceptable adverse effects (“prevent”).

The overall ProPG 2017 approach is intended for implementation with projects at an earlier stage than the subject of this report. This report provides a full noise mitigation strategy for the site, rather than an initial recommendation to the decision maker.

ProPG 2017 contains the most up to date guidance available on industry-wide adopted best-practise interpretation of relevant guidance regarding acceptable internal and external noise levels i.e. BS8233:2014 and WHO Guidelines.

WHO GUIDELINES FOR COMMUNITY NOISE (1999)

The guidance in this document recommends design criteria for internal noise levels within residential and commercial buildings. A summary of the recommended guidance is shown in Table 2.1. Table 2.1 – Excerpt from WHO [dB ref. 20μPa]

Criterion	Environment	Design range LAeq,T dB
Maintain speech intelligibility, avoid moderate annoyance, daytime & evening	Living Rooms	35
Prevent sleep disturbance, night time	Bedrooms	30

This guidance also states:

For a good sleep, it is believed that indoor sound pressure levels should not exceed approximately 45dB LAmax more than 10-15 times a night (Vallet & Vernet 1991)



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For outdoor living areas, it is stated that:

To protect the majority of people from being seriously annoyed during the daytime, the outdoor sound level from steady, continuous noise should not exceed 55dB LAeq on balconies, terraces and in outdoor living areas. To protect the majority of people from being moderately annoyed during the daytime, the outdoor sound level should not exceed 50dB LAeq. Where it is practical and feasible, the lower outdoor sound level should be considered the maximum desirable sound level for new development

BS8233:2014 GUIDANCE ON SOUND INSULATION AND NOISE REDUCTION FOR BUILDINGS

The guidance in this document indicates acceptable noise levels for various activities within residential dwellings. A summary of the recommended guidance is shown in the following table as listed in BS8233: 2014

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living Room	35 dB LAeq, 16 hour	-
Dining	Dining Room	40 dB LAeq, 16 hour	-
Sleeping (daytime resting)	Bedroom	35 dB LAeq, 16 hour	30 dB LAeq, 8 hour



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Executive Summary:

Airtight & Noisecheck Ltd were instructed by Aramco Developments Ltd to undertake a Noise Impact Assessment (NIA) at The Swan Inn, Jessie Road, Bedhampton. A planning application has been granted for the erection of 3 x new dwellings to the East of the public house. The dwellings will be located in the current public house car park & garden area, with the public house garden and car park being reconfigured to the South & West of the site. The site will comprise of a row of 3 x terraced dwellings, located to the East of the site (see site plan), close to existing dwellings in this location. The microphone location was used to determine the impact of the following noise sources on the proposed dwellings:

1. Noise associated with the public house garden
2. General activity of the public house, car park & patron Noise
3. Noise associated with vehicular traffic using the local road network

The local authority listed two conditions as part of the granted application, these are Conditions 6 & 7, listed below:

Prior to commencement of the development, a noise assessment shall be submitted in writing to the Local Planning Authority for approval of external noise levels including reflected and re-radiated noise and details of the sound insulation of the building envelope, orientation of habitable rooms away from major noise sources and of acoustically attenuated mechanical ventilation as necessary to achieve ' Good ' internal noise levels for rooms and (if provided) external amenity standards in accordance with the criteria of BS8233:2014. The approved details shall be implemented prior to occupation of the development and thereafter be permanently retained.

Prior to the commencement of the development hereby approved, a scheme shall be provided in writing to demonstrate that the external noise levels within the curtilage of the residential units and amenity areas for the site shall conform to the " Design criteria for external noise " upper guideline value of 55 dB LAeq,T and preferably with the desired LAeq,T level of 50 dB as specified in section 7.7.3.2 of BS 8233:2014.

Guidance on the noise mitigation works to be provided to ensure noise reduction for the proposed development shall be submitted to and approved in writing by the Local Planning Authority. The work specified in the approved scheme shall then be carried out in accordance with the approved details prior to occupation of the development and be retained thereafter.

So, this report will address both of these points listed above. The proposed dwellings should not be adversely affected by the noise associated with the public house garden, car park, functions, or road traffic. The measured noise levels are consistent with a relatively quiet, residential road network and in addition the bespoke calculations for the variety of noise sources also indicate that the future residents should not be adversely affected. The public house is open 1200-2300hrs on Monday - Friday, 1200-2330hrs on Saturday and 1200-2200hrs on Sunday so it is highly unlikely that the noise associated with the venue will have an adverse impact on the dwelling and certainly not during the majority of the night time period. It is anticipated that the noise associated with the weekend period will be the worst-case scenario and therefore the assessment was undertaken over a weekend period with sports in operation over the time period. By assessing the above noise sources, it is anticipated that a detailed approach to the proposals has been undertaken. The report clearly shows the required sound reductions needed for the scheme & these measures can be implemented to the residential dwellings to ensure the necessary criteria is achieved.

The conclusions of this report illustrate that the noise associated with the Public House will not have an adverse impact on the proposed residential dwellings, providing that suitable mitigation measures are implemented to the proposed scheme. It is recommended that Acoustic trickle vents be installed to all dwellings to assist with ventilation when windows are closed. However, to strike a balance between noise, overheating & ventilation it is anticipated that future residents of the dwellings should be able to ventilate the dwelling naturally by opening windows on various elevations throughout the day time and night time period. Both the measured & calculated levels indicate a generally low impact on the proposed dwellings with long periods whereby the dwelling can be naturally ventilated via open windows. Some facades of the dwellings will be partially screened from the public house noise sources and thus be exposed to lower noise levels associated with the venue.



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Therefore, the dwellings can be naturally ventilated with open windows for periods of the day time and night time. The measures to be taken by the client should ensure a satisfactory acoustic climate for the future residents of the proposed dwelling. The noise associated with the closing of car doors etc is noted as being a one-off noise level, but these noise levels should not be treated in isolation but compared to the average noise levels. A bespoke assessment has been used as part of this assessment.

In addition, the relocation of the public house car park to the Southwest of the proposed dwellings (centre of the car park is circa 23m from the façade, and the closest is 10m) should not have an adverse impact on the existing or proposed dwellings as this area is already part of the public house car park. The public house garden will also relocate to the West (at the rear of the venue) – again, this will not lead to any adverse impact for existing or proposed dwellings due to the installation of a 2.4m high acoustic timber fence between the proposed dwellings and the public house garden and the fact that the public house garden is already located to the North of the venue so it is not being relocated to a new area, but rather shifted to the West slightly.

It must also be noted that the calculated $L_{Aeq\ 8hour}$ values and the L_{Amax} values exceeded 10 times during the night time period is within the guidelines as listed in the ADO document so overheating will not be an issue, and the dwellings can naturally ventilate their bedrooms with open windows, and this will not lead to an adverse impact from noise sources apparent in the area.



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Acoustic Design Statement:

The site is situated in a residential area, with Jessie Road located to the South of the proposed dwellings, Ernest Road to the East, St Michael's Road & the public house located to the West and residential dwellings located to the North. There are existing dwellings immediately to the North, East, South & West of the proposed dwellings.

The centre of the relocated public house car park will be 23m from the proposed residential façade, with the closest spaces being 10m away. The centre of the public house garden will be 10m from the residential garden but separated by a 2.4m high acoustic fence. The measured average levels are relatively low throughout the measurement duration. The necessary noise criteria should be achieved by suitable mitigation measures to the building façade & glazing. The client will take steps and implement mitigation measures to ensure the impact of the external & internal noise should not have an adverse impact on the future residential dwelling. These steps include:

- 1 Careful configuration of dwellings – some noise sensitive rooms located away from the PH garden & building & road network
- 2 Measures applied to the dwellings to improve ventilation
- 3 Install a robust glazing system to the dwellings to protect the residents from the external noise emissions when closed
- 4 Acoustic trickle vents installed to dwellings to ensure ventilation when windows closed
- 5 2.4m high dense timber fence erected along the boundary between the public house garden and residential gardens
- 6 Bedrooms can be naturally ventilated with open windows to avoid overheating

The initial risk assessment has indicated that the day time noise levels for the proposed dwellings fall into the low category and the negligible category during the night time. Pro PG states that for the low category 'At low noise levels, the site is likely to be acceptable from a noise perspective provided that a good acoustic design process is followed and is demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and minimised in the finished development.' Sites that fall into the negligible category state These noise levels indicate that the development site is likely to be acceptable from a noise perspective, and the application need not normally be delayed on noise grounds. Therefore, based on the average noise levels, the impact should be low. Due to the nature of some of the noise sources however, further bespoke calculations have been included to further illustrate the low impact on the proposed dwellings.

There are no British Standards to assess noise from public houses so in addition to the average values, various measurements and calculations will be used to try and determine the noise associated with the public house garden as there is no specific criteria. The public house garden was in use during the assessment and the weather was hot over the weekend period.

The acoustic trickle vents are not designed to ensure BS8233: 2014 compliance but offer suitable levels of ventilation during periods when windows maybe closed, but it is anticipated that the dwellings can be naturally ventilated with open windows for long periods of the day time and night time periods, and it is essential that a balance is struck between noise, ventilation and overheating as there will clearly be long periods of the day time and night time that the dwelling will not be adversely affected by the public house. The night time noise levels for bedrooms are within the guidelines as listed in ADO thus overheating will not be an issue, and the dwellings can be naturally ventilated with open windows during the night time period (and day time based on the low average levels).



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1 Objective:

1.1 To demonstrate that the noise associated with the road traffic noise & noise associated with The Swan Inn public house will not have an adverse impact on the proposed residential scheme to be located to the East of the public house. A planning application has been granted to erect 3 x residential dwellings to the side of the public house garden & venue (with the section of car park & garden being relocated). The side elevation of Plot 1 will face the public house beer garden with the front façades facing Jessie Road. Plots 2 & 3 will be located further away from the public house – the dwellings will be located circa 15m from the public house building, 17m from the kitchen plant, 10m from the centre of the closest section of public house garden and 10m from the closest section of the public house car park. The public house garden and residential garden of Plot 1 will share a boundary as part of the application, being separated by a 2.4m high acoustic fence.

1.2 In addition to the measured levels, Calculations assuming public house garden noise & vehicle movements have also been included to ensure all angles have been covered. These calculations include the necessary acoustic feature corrections to take the extra distance into account, and suitable mitigation measures will be implemented to the scheme.

2 Calibration:

2.1 The measurement microphone was calibrated before and after testing in the measurement location and there were no drifts recorded during the assessments.

3 Site Layout & Microphone Position:

3.1 Bedhampton is a former village, and now suburb, located in the borough of Havant, Hampshire. It is located at the northern end of Langstone Harbour and at the foot of the eastern end of Portsdown Hill.

3.2 The proposed site is located in a residential area with existing dwellings situated to the North, East, South & west of the proposed dwellings with Jessie Road to the South, St. Michaels Road & the public house located to the East, Ernest Road to the West and residential dwellings to the North. The public house is located 15m to the East of the dwellings. There will be a 2.4m high dense acoustic boundary treatment separating the residential gardens from the public house garden. The local area is a residential area with vehicular traffic being the dominant noise source, but the traffic rates are low and not intrusive.

3.3 The proposed scheme will comprise of 3 x terraced dwellings located to the West of the venue. They will be a similar distance from the venue and garden as some other, existing dwellings.

3.4 The measurement microphone was located:

- 1- At the public house garden boundary facing the rear car park. This is where the approximate residential dwellings will be. It was at least 2m from the ground and in excess of 3.5m from any other reflective surface.

4 Weather Conditions:

4.1 The weather was dry & warm during the measurement procedure; the temperature ranged between 3-17 degrees on Friday 13th & 3-18degrees on Saturday 14th September. There was little to no cloud or rain over the weekend.

5 Measurement Duration:

5.1 The continuous measurement was taken for 48hour period, the public house was open and operating as normal. The road traffic using the local road network was at normal levels and thus offer a fair reflection of the noise associated with the road network.

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6 Public House Plant:

6.1 There are 2 x pieces of plant serving the public house, with 1 x unit at ground floor level on the rear elevation (facing the dwellings) and the separate unit located on the flat roof at the rear of the building. Please note that there is no mitigation possible to the plant itself and thus this report will show the absolute level of plant at the proposed façade and offer suitable mitigation for the plant.

6.2 Please note that the plant will only be in operation during the day time and in continuous use.

6.3 For the purpose of this assessment, the lowest $LA_{90\ 3min}$ value has been assumed for the day time period (even though the 1hour value should be used) so this will be compared to the plant data for the day time.

Day Time

Results	Commentary	
Ambient Sound Level	Sound Pressure Level = 70dBA @1m	Measured source level – unit 1 – 64dB(A) – unit 2 = 69dBA
Residual Sound Level	55dBA	Measured at receptor – day time
Specific Sound Level	70dB	$L_s = 10\lg(10^{L_{a/10}} - 10^{L_{r/10}})$
Acoustic Feature Correction	None – Inaudible at façade etc	
Reductions due to distance	-25dB to levels for distance	$L_2 = L_1 - 20\log(r_2/r_1)$ $L_2 = 70 - 20\log(17/1)$
Reductions due to Barrier	-10 to -15dB for 2.4m acoustic fence	
Rating Level	30-35dBA	Plant level at façade
Background Sound level	40dBA	Measured on site – with plant off – majority of the day will be much higher than this
Excess of rating over background	(30-40) = -10dB (35-40) = -5dB	
Assessment indicates no adverse impact at receptor – inaudible at façade		Will be inaudible at façade, not in operation during the night time & LA_{90} level increase during large parts of the day

6.4 The above calculations indicate that the plant during the day time period will not lead to an adverse impact for the proposed dwellings, in addition the calculated level at the façade will easily be mitigated via the measures listed in this report and is below other noise sources apparent.

6.5 Even with the absence of the acoustic barrier, the measured levels would be 45dBA at the residential facade – this equates to an internal level of 32dBA (assuming a -13dB reduction for an open window) so this level is below the internal levels as listed in BS8233: 2014 for the day time period. Plots 2 & 3 will be located even further away with more mitigation apparent so the impact will be even less.



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7 Results:

7.1 The purpose of this measurement was to establish the levels associated with the road traffic noise and noise associated with the public house, on the proposed dwellings. The levels will be compared to the necessary British Standards & relevant documents, also some bespoke measurements will be adopted. With additional assessment and calculation to determine the impact of the extended car park on the existing dwelling.

L_{Aeq} 16hour & 8hour Noise Levels:

Mic Location	L _{Aeq} 16hour Value	Reduction needed for BS8233 compliance	L _{Aeq} 8hour Value	Reduction for BS8233 compliance	L _{Amax} Value	Reduction for compliance
ML 1 – Friday	53dBA	18dB	45dBA	15dB	62dBA	17dB
ML 1 - Saturday	55dBA	20dB	44dBA	14dB	59dBA	14dB

8 Results Conclusion:

8.1 The tables listed above clearly indicate the required sound reduction values at the proposed site. It is clear to see that the measured levels are within the low category of the Pro PG document for the day time period and the negligible category for the night time period. Providing suitable mitigation measures are applied to the necessary facades the required internal criteria can be achieved. Further calculations will be included within this report to try and establish some relative levels for the public house garden, but even with these in mind It is anticipated that as some facades will be screened from the public house, the noise levels fall into the low category and for the majority of the week it is anticipated that these dwellings can be naturally ventilated with open windows during the day time and night time period, to achieve a balance between noise, ventilation, and overheating.

8.2 Based on the measured noise levels, the proposed mitigation measures, the location of the development and the type of noise apparent it is anticipated that the noise will fall at The NOEL value (No adverse effect level) and maybe towards the LOAEL (Lowest observed adverse effect level) and as such the noise should not have a detrimental effect on the future residents providing adequate measures are implemented to the building fabric & elements. For noise sources at the LOAEL, it is anticipated that the noise will be noticeable but not intrusive if suitable mitigation measures are implemented to the development.

8.3 Based on the measured levels and assuming a glazing specification offering a sound reduction of 30dBA (meets the levels required above) is installed the following internal levels would be achieved:

Room	External Level	Sound Reduction of windows	Internal Level	Criteria Met
Lounge	53-55dBA	30dB	23-25dBA	Yes
Bedroom – L _{Aeq}	44-45dBA	30dB	14-15dBA	Yes
Bedroom - L _{Amax}	59-62dBA	30dB	29-32dBA	Yes

8.4 The levels above indicate that the internal levels can be achieved with the windows closed. Further table shown on the following page. Section 2.30 and Figure 2 of the Pro PG document states that the internal guidelines of BS8233: 2014 can be relaxed by 5dBA (40dBA L_{Aeq} 16hour and 35dBA L_{Aeq} 8hour) when the dwellings are necessary or desirable and also that residents will accept a slight increase in noise levels to ensure natural ventilation. A relaxation of 5dBA will still ensure a reasonable standard of living. It is clear that this approach could be implemented to the development for the day time levels and the night time levels.

8.5 Some of the noise sensitive windows will be partially screened from the public house noise and therefore the facades will be exposed to lower levels. This would ensure that there are quieter facades and noise levels for the future residents for the dwellings.

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8.6 The levels shown in the table above indicate that a reasonable standard of living can be achieved with open windows (to rear facades in particular). Even if this is for short periods of time, it will ensure a balance is struck between noise, overheating & ventilation for the new dwellings.

8.7 Table 3.3 – Guidance for level 2 assessment of noise from transport services in the ANC AVO guide states that ‘Noise causes a material change in behaviour e.g., having to keep windows closed most of the time’ if the following levels are exceeded for longer periods of time:

Internal ambient noise levels

L _{Aeq} 16hour 0700-2300	L _{Aeq} 8hour 2300-0700	Individual noise events 2300-0700
>50dB	>42dB	Normally exceeds 65dB L _{AmaxT}

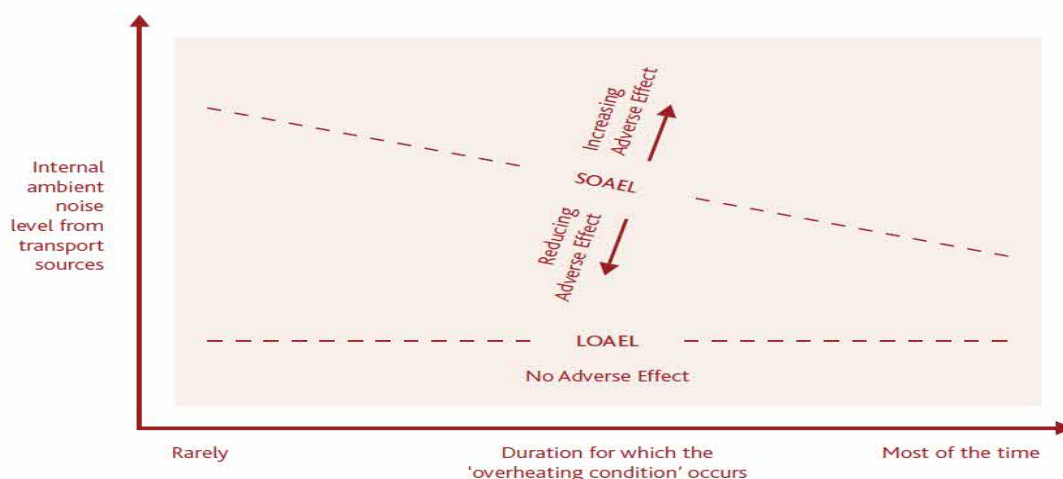
8.8 Using the above guidance (sliding scale as shown in the diagram below) the calculated internal levels at all facades and other screened facades (facing away from the PH) with the windows open are also shown below. It is anticipated that the future occupants will accept an increase in the noise levels for periods of time to ensure good thermal comfort for the dwellings. These levels can be met for transportation noise, please see bespoke calculations for other noise sources and L_{Amax} calculations. There will be periods of time when windows are opened and may be less, but then the MVHR units can ensure suitable levels of ventilation for the dwellings. The future residents will be able to open and close the windows at their own discretion at the rear elevations can be open as they wish.

Front Facade	External Level	Sound Reduction of open windows	Internal Level
Lounge	53-55dBA	-13dB	40-42dBA
Bedroom – L _{Aeq}	44-45dBA	-13dB	31-32dBA
Bedroom - L _{Amax}	59-62dBA	-13dB	46-49BA

Partially screened Facades	External Level	Reduction offered by screening	Sound Reduction of open windows	Internal Level
Lounge	53-55dBA	-5dB	-13dB	35-37dBA
Bedroom – L _{Aeq}	44-45dBA	-5dB	-13dB	26-27dBA
Bedroom - L _{Amax}	59-62dBA	-5dB	-13dB	41-44dBA

The above is assuming some facades will be partially screened from the public house etc. There will be periods of time when the noise associated with the public house will not be the same as it will be over the weekend and therefore the noise exposure will be a lot less for extended periods of time.

Figure 3-2 Qualitative guidance on combined effect of internal ambient noise level and duration for the overheating situation



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8.9 Based on the measured average levels and anticipated internal levels, it is recommended that for long periods of the week the dwellings can be naturally ventilated, but to ensure suitable internal ventilation levels over busy periods then it is recommended that acoustic trickle vents be incorporated the scheme, even though it is anticipated that the dwellings will be exposed to lower noise levels for extended periods of the week. Acoustic trickle vents will help to ensure that the dwellings can be ventilated when the windows are closed. These measures combined with the quieter facades should ensure a reasonable standard of living can be achieved for the proposed dwellings. The bedrooms also meet the requirements of ADO and thus overheating will not be an issue for future residents.

8.10 It can be seen (using the measured levels) that the internal levels will be adequate for the residents with windows open but it is also accepted that certain noise (raised voices in the public house garden etc.) may be audible, so during these periods the dwellings will be ventilated via the alternative system. The purpose of the acoustic trickle vents is to ensure the rooms can be ventilated for the period of time when the windows are closed, but a balance must be struck between noise, overheating and ventilation. It is anticipated that future residents will accept this slightly higher level for periods of time to be able to naturally ventilate their homes and the measured levels should not be intrusive.

8.11 The above is based on the average values, with the following calculations based on specific noise levels and mitigation. It must be reinforced that the noise levels are lower during extended periods of the year, thus the residents will be exposed to lower levels during these times.

8.12 The proposed measures indicate that the development follows the approach recommended in the PPG Guidance (Paragraph 009) regarding the closure of windows which states: "The agent of change will also need to define clearly the mitigation being proposed to address any potential significant adverse effects that are identified. Adopting this approach may not prevent all complaints from the new residents/users about noise or other effects but can help to achieve a satisfactory living or working environment and help to mitigate the risk of a statutory nuisance being found if the new development is used as designed (for example, keeping windows closed and using alternative ventilation systems when the noise or other effects are occurring)."

8.13 Paragraph 011 of the same guidance states: Noise impacts may be partially offset if residents have access to one or more of:

- a relatively quiet facade (containing windows to habitable rooms) as part of their dwelling.

- a relatively quiet external amenity space for their sole use, (e.g. a garden or balcony). Although the existence of a garden or balcony is generally desirable, the intended benefits will be reduced if this area is exposed to noise levels that result in significant adverse effects.

- a relatively quiet, protected, nearby external amenity space for sole use by a limited group of residents as part of the amenity of their dwellings; and/or

- a relatively quiet, protected, external publicly accessible amenity space (e.g. a public park or a local green space designated because of its tranquillity) that is nearby (e.g. within a 5-minute walking distance).

8.14 The proposed scheme ensures that some of the bullet points shown above have been implemented as part of the application. There are both quieter facades and amenity space as part of the application that are screened from the noise sources. In addition to the orientation of the dwellings, further measures also include installing alternative ventilation measures to the dwelling to ensure suitable levels of ventilation when the windows are closed, but all residents will have the ability to open their windows at their own discretion.



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9 L_{Amax} Measurements:

9.1 In addition to the measured values on site, the L_{Amax} values have been viewed, this is due to the close proximity of the venue to the dwellings. The public house garden was in operation during the assessment, so it seems unfair to use other, historic data from similar venues as it was measured directly at source. Some measures values are highlighted in the table below.

Mic Location	L _{Amax} 3min	Reduction for compliance	L _{Aeq} values	Reduction	Notes
Friday - ML 1 – At source	74dBA @ 2139, 2142 & 2300hrs 65dBA @ 2321hrs	29dB 20dB	51dBA – modal value between 1500-2100hrs Friday	16dBA	Some L _{Amax} levels >62dB
Saturday	73dBA at 2103hrs 65dBA @ 2209hrs	18dB 20dB	54dB = Modal value between 1500-2100hrs	19dB	A one-off value of 83dBA was recorded at 2230hrs but this is a one off and not regular

9.4 It must also be noted that the rooms located on screened facades of the scheme will be exposed to lower levels than those listed above and therefore the internal and external criteria will be lower in this location.

9.5 There are instances when the noise levels increased but this is expected when the dwellings are so close to a public house. But the calculated levels shown above, along with the measured levels taken on site indicate a suitable acoustic environment for the future residents of the proposed scheme.

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10 Car Park Noise & Vehicle Movements – Proposed Dwellings:

10.1 The public house & car park was in operation during the assessment so the levels were measured directly and form part of the average values. However, the car park will be located to the South of the public house, and West of the dwellings. In addition to this the L_{Amax} values have been referenced and these should be mitigated accordingly. The Centre of the car park will be circa 23m from the façade but the closest spaces will be circa 10m away. Therefore, we have applied the following calculations. The conclusions indicate that the noise associated with the car park should not have an adverse impact on future residents.

10.2 For robustness, the following equation has also been used to try and determine the noise associated with vehicle movements etc. This calculation uses the single event level (SEL) which is the noise level apparent for 1second of an event, then these levels are compared to a reference time period to take numerous SEL events into account. It is accepted that single events (one off) could be audible at the residential façade but it is not representative to use this single figure in isolation but rather to compare these over a suitable time period. There is no single calculations to assess car park noise and vehicle movements so a combination of calculations have been used as part of this assessment.

Car Movements		
SEL dB(A)	68 @ 10m	
No of events	25	
Distance, m	10	
Distance correction	-0 (point source equation)	
Reference period	15mins	
Correction for reference period	-16	
Barrier correction	0	Total
Total Noise at dwelling		52

10.3 The correction for the reference period is determined using the equation on the following page & the SEL value used is 68dB @10m which equates to a value of 88dB at 1m.

10.4 The above table uses the following equation to determine the noise level over a time period. The time period for this assessment has been reduced to 15minniutes, with the number of events 25 in that time period.

$$LA_{eq}(T) = SEL + 10 \log N - 10 \log T$$

where $LA_{eq}(T)$ = Equivalent continuous sound pressure level over time period T
 SEL = 'Single Event Level,' i.e., the 1 second LA_{eq} which has the same total A-weighted energy as the entire event
 N = Number of events in time period T
 T = Time period in seconds

10.5 The calculations & table above indicate that the noise associated with the vehicle movements & doors closing would be circa 52dBA at the residential façade. It is anticipated that the residential façade will be circa 10m from the closest point of the car park. A level of 52dBA would require a sound reduction of 22dB to meet the internal criteria set out in BS8233: 2014 (night time levels, even though the public house will not be open beyond 2300hrs five days a week) indicating a sound reduction of 17dB for the daytime levels.

10.6 It is clear that a level of 52dBA at the residential façade is less than those measured on site during the operating time of the venue. Therefore, the noise associated with the public house car park should not have an adverse impact on the proposed dwelling, and the same principle applies to the other noise sources in that the levels at the front/screened facades will be even less than that shown above.

10.7 A car door closing has been measured at L_{Amax} value of 74-78dBA at 1m and using the reductions for distance (10m) would give a calculated level of 54-58dBA at the façade. This value would meet the requirements for the L_{Amax} levels assuming an open window (internal value of 45dBA and assuming an SRI of -13dB for an open window).



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11 Residential Amenity Space – Existing and Proposed Dwellings:

11.1 The calculated levels at the proposed residential amenity space are between 53-55dB LAeq 16hour which is already equal to and lower than the upper limit as stated in section 7.7.3.2 of BS8233: 2014 and referenced in the condition set by the LPA. Once the dwellings are built and boundary treatments also erected, the residential amenity space will be screened further from the road and public house so the levels will reduce further. The further measures listed above combined with the already low measured levels should offer a sound reduction of circa - 10dB (probably more). Therefore, the calculated level within the amenity space should be circa 43-45dBA. This level is below the lower limit for residential amenity space as listed in section 7.7.3.2 of BS8233: 2014. There will be a 2.4m high dense acoustic fence erected between the residential garden and the public house garden area.

12 People using the Public House Garden Area:

12.1 The assessment took place over a weekend during warm weather & the beer garden was in use, so the data is considered to be robust, and is corroborated by the measurements taken on site. The following calculation has been used on this occasion to try and determine the rating level at the façade based on the garden being busy.

The following document has been used to determine the noise created by small groups of people:

‘Prediction of noise from small to medium sized groups’

M.J Hayne, J.C Taylor, R.H Rumbe & D.J Mee – 2-4th November 2011, Gold Coast Australia

12.2 This document uses the following equation to determine noise levels from small to medium sized groups:

$$L_{Aeq} = 21 \log N + 43 \text{dB(A)}$$

N = number of people

12.3 Due to the size of the garden area, a figure of 30 people using the garden area at any one time would seem fair, so this is the figure used for this calculation:

$$L_{Aeq} = 21 \log 30 + 43 \text{dB(A)} = 74 \text{dBA at source}$$

12.4 Based on the equation above, the noise created by 30 people using the garden area would create a noise level of 74dBA. This level can then be calculated at distance using the following equation:

$$L_2 = 20 \log (r_2/r_1)$$

Therefore:

$$74 - 20 \log (10/1) = 54 \text{dBA}$$

12.5 The above equation has been used to try and determine the level of the public house garden area on the proposed dwelling and substantiate the measured levels, it is appreciated that elements such as shouting and raised voices may also increase the rating level, however the calculated value of 54dBA is assumed for a distance of 10m (closest section of public house garden to closest dwelling). This level is in line with the measured level of the time period. Please note it is impossible to determine the number of people within the Garden area at any one time, however, a figure of 30 people would seem a fair assessment for a garden of this size.

12.6 Further to the above calculations and the levels shown in the table on the previous page it is anticipated that the above value of 54dBA is relative for the residential gardens and facades. There will be times whereby the levels are increased due to shouting and raised voices etc, Table 7 of BS8233: 2014 states that a raised voice will produce circa 62dBA at 1m, which equates to a levels of 42dBA at 10m. With this value in mind, if a level of 75dBA is assumed at 1m then this would equate to a level of 55dBA, equating to a sound reduction of 20dBA for day time and the public house garden will not be used after 2300hrs.

12.7 Please also note that the above equation does not take the reduction offered by the 2.4m high acoustic timber fence to be erected into account. This mitigation measure will reduce the impact even more at the residential facade.

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13 Required Levels of Mitigation:

Elevation	Noise Source	Level of Sound Reduction
All Facades	Road traffic & PH car park, garden	30dBA Will be lower for majority of time & at the facade but assume the same level of mitigation – using various levels of calculations

14 Building Specifications:

14.1 It is recommended that the dwellings are ventilated with acoustic trickle vents. These will ensure the dwellings can be ventilated when the windows are closed. The dwellings can be naturally ventilated with open windows during long periods of the day time, and during the night time

Product	Sound Reduction - open	Sound reduction - closed
RW Simon Acoustic EHA trickle vent	36dB	38dB

14.2 Façade Detail – The proposed façade is believed to be something similar to: - Aggregate block cavity wall, minimum 100mm blocks (minimum density 1350kg/m³), minimum 75mm cavity between leaves, finished with 13mm plaster. This system should achieve a sound reduction of between 50-52dB DnT,w + Ctr 'Code of Practice BS8233: 2014, Page 60 – Table E.1B – Airborne sound insulation of walls and partitions'. Also, a cavity wall system comprising of 7N concrete blocks (two separate frames), have a sound reduction of approximately 53dB (predicted weighted sound reduction index values of Celcon Blockwork – from H&H Celcon).

14.3 Roof Detail – The proposed roof detail is believed to be similar to: Tiles on felt, pitched roof with 100mm mineral wool on plasterboard ceiling. This system should achieve a sound reduction of 43dB R_w 'BS8233: 2014, page 41 - Table 8 - The sound insulation of roofs'.

15 Windows - The proposed windows to be used is unknown but standard double-glazed systems offer a sound reduction of between 30-35dB. A level of 35dBA has been determined from the various calculations (should exceed requirements) and thus the specifications listed below will offer this level of reduction.

Possible Units	Thickness	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Overall reduction
SG Solaglass 4-7-6	17mm	25	22	28	38	37	35	33-3=30dB
SG Solaglass 4-6-6	16mm	23	25	27	37	39	42	34-4=30dB

15.1 There are many other suitable products, and the client will have to show compliance for the windows before installation, the manufacturer will have the acoustic data for the windows.

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16 Results Summary:

16.1 The findings of this survey indicate that the noise associated with the road traffic, public house garden & car park will not have an adverse impact on the existing and proposed residential dwellings, providing the necessary mitigation measures are applied to the site.

16.2 The results of the various detailed calculations indicate that the noise emissions associated with the car park & public house will not have an adverse impact on the existing & proposed residential dwellings.

16.3 The mitigation measures listed within this report offer suitable sound reduction for the necessary building elements and if they are implemented throughout the site then the future residents should be able to enjoy a reasonable standard of living. Upon implementation of the mitigation measures, the internal & external criteria of BS8233: 2014 should be met within the noise sensitive bedrooms at the proposed development. In addition to the above, there are no clear British Standards for assessing public house noise and therefore this report has included a variety of methods to assess the impact of the noise and used other data from similar sites too in order to achieve a suitable level of mitigation.

16.4 Planning ProPG states that a good acoustic design process is a vital part of new developments. The client has taken steps to ensure that the existing & future occupants are protected from the noise source, these steps include:

- 1 Careful configuration of dwellings – some noise sensitive rooms located away from the PH garden & building & road network
- 2 Measures applied to the dwellings to improve ventilation
- 3 Install a robust glazing system to the dwellings to protect the residents from the external noise emissions when closed
- 4 Acoustic trickle vents installed to dwellings to ensure ventilation when windows closed
- 5 2.4m high dense timber fence erected along the boundary between the public house garden and residential gardens
- 6 Bedrooms can be naturally ventilated with open windows to avoid overheating

16.5 The measures taken by the client, should ensure the existing & future residents will not be adversely affected by the noise sources associated with the public house & car park.

16.6 The L_{Amax} levels have been assessed in numerous ways and this report has offered suitable mitigation measures that can be implemented to ensure the existing & future residents are not adversely affected by the noise associated with the public house and car doors closing etc. The venue can also help to control these elements by asking the patrons to leave quietly etc.

16.7 Whilst this report offers acoustic trickle vents to be installed, this is not meant to ensure the dwelling is solely reliant on such. There are facades on the proposed dwelling that will be able to be naturally ventilated for long periods of the day time and night time via open windows. It is essential to strike a balance between noise, overheating & ventilation and this report offers such measures. Based on the measured $L_{Aeq\ 8hour}$ values and the L_{Amax} levels exceeded 10 times per night, the bedrooms can be naturally ventilated via open windows and thus overheating will not be an issue for the proposed scheme. The text below is taken from Approved Document O – Overheating

Noise

3.3 Windows are likely to be closed during sleeping hours if noise within bedrooms exceeds the following limits.

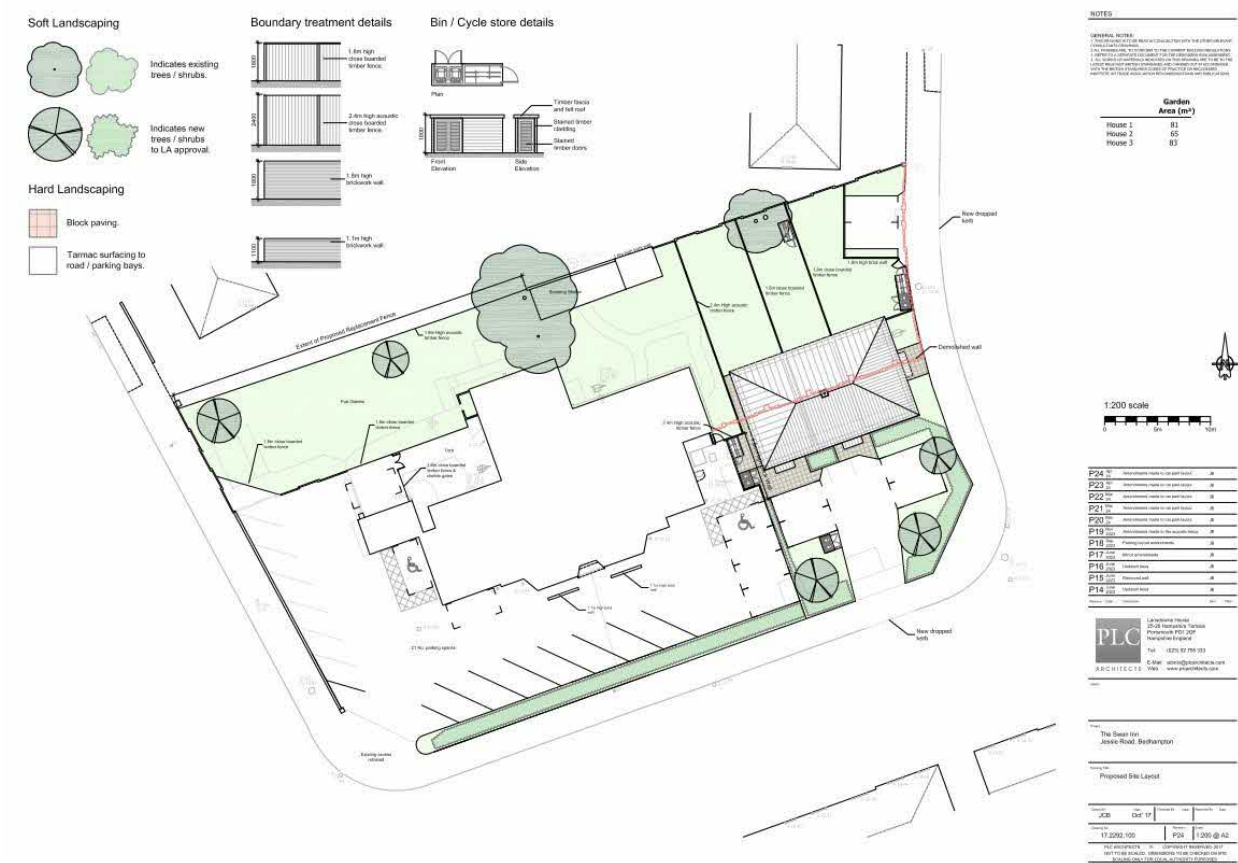
- a. 40dB $L_{Aeq,T}$, averaged over 8 hours (between 11pm and 7am).
- b. 55dB L_{AFmax} , more than 10 times a night (between 11pm and 7am).

16.8 Some dwellings will be located further from the public house garden, so the noise will decay due to distance, and this combined with the relatively low noise levels measured on site and robust and comprehensive mitigation measures should ensure a suitable acoustic environment for the future residents of the scheme.



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17 Proposed Site Plan:





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18 APPENDIX

Continuous equivalent noise level, LAeq — The steady noise level (usually in dBA) which, over the period of time under consideration, contains the same amount of sound energy as the time varying noise.

LAmx - The maximum value that the A-weighted sound pressure level reaches during a measurement period.

dB (A) — The A-weighted sound pressure level.

Decibel (dB) — A unit used for many acoustic qualities to indicate the level of sound with respect to a reference level.

A-weighting — A frequency weighting that relates to the response of the human ear.

Background noise level — Prevailing noise level in a specified environment measured in the absence of the noise being studied.

Habitable Room — A room used for sleeping or recreation/relaxation

D_{ne,w} Weighted element normalised level difference — A single-number quantity which characterises the airborne sound insulation of a small building elements.

EPU — Environmental Protection Unit

R_w Weighted sound reduction index — A single-number quantity which characterises the airborne sound insulation of a material or building element measured in the laboratory.

LA₁₀ — The A-weighted noise level exceeded for 10% of the measurement duration.

LA₉₀ - The A-weighted noise level exceeded for 90% of the measurement duration.

British Standards & associated documents:

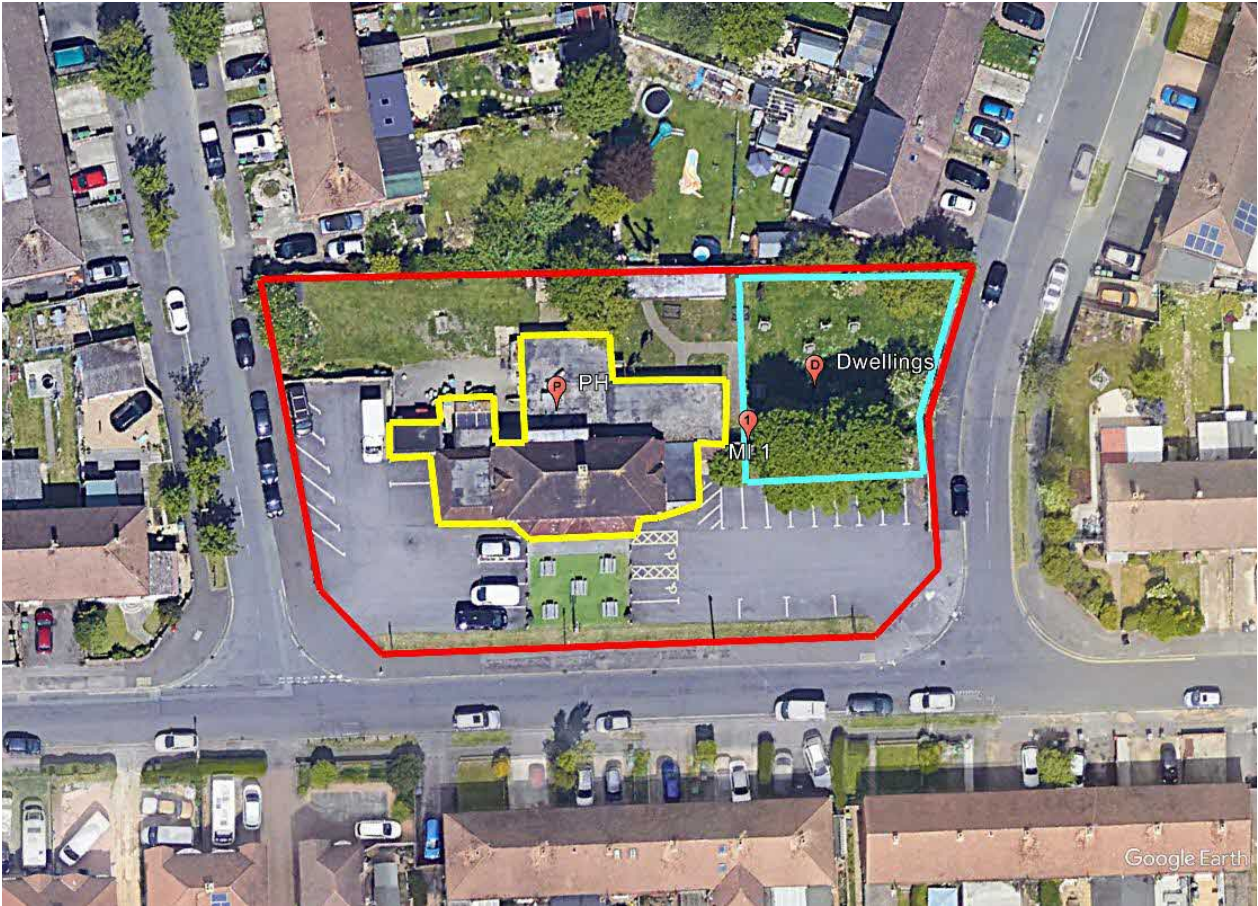
Code of Practice: BS8233: 2014 - Sound Insulation and noise reduction for buildings.

World Health Organization (WHO) - Guidelines for Community Noise.

Pro PG — Planning & Noise, Residential Development — 2017

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19 Google Earth:



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Time Period	LAeq	LAmx
(2024/09/13 09:03:00.00)	53.2	63.2
(2024/09/13 09:06:02.00)	49.2	59.7
(2024/09/13 09:09:02.00)	48.1	67.1
(2024/09/13 09:12:02.00)	49.5	64.9
(2024/09/13 09:15:02.00)	49.4	61.9
(2024/09/13 09:18:02.00)	56.3	78.1
(2024/09/13 09:21:02.00)	51.7	65.1
(2024/09/13 09:24:02.00)	61.6	80.2
(2024/09/13 09:27:02.00)	52.9	64.4
(2024/09/13 09:30:02.00)	49.7	59.5
(2024/09/13 09:33:02.00)	48.5	59.1
(2024/09/13 09:36:02.00)	48.9	59.5
(2024/09/13 09:39:02.00)	46.4	57.9
(2024/09/13 09:42:02.00)	50.7	62.8
(2024/09/13 09:45:02.00)	46.9	59.2
(2024/09/13 09:48:02.00)	48.8	60.9
(2024/09/13 09:51:02.00)	48	59.5
(2024/09/13 09:54:02.00)	48.9	59.1
(2024/09/13 09:57:02.00)	48.6	57.3
(2024/09/13 10:00:02.00)	49	57.9
(2024/09/13 10:03:02.00)	45.8	56.2
(2024/09/13 10:06:02.00)	47.9	59.8
(2024/09/13 10:09:02.00)	48.7	59.4
(2024/09/13 10:12:02.00)	47.1	60.2
(2024/09/13 10:15:02.00)	47.1	60.4
(2024/09/13 10:18:02.00)	48.7	57.2
(2024/09/13 10:21:02.00)	47.3	58.6
(2024/09/13 10:24:02.00)	47	57.6
(2024/09/13 10:27:02.00)	46	56.2
(2024/09/13 10:30:02.00)	47.1	57.3
(2024/09/13 10:33:02.00)	49	60.3
(2024/09/13 10:36:02.00)	50	65.2
(2024/09/13 10:39:02.00)	46.6	64.2
(2024/09/13 10:42:02.00)	52.8	71
(2024/09/13 10:45:02.00)	48.2	60
(2024/09/13 10:48:02.00)	49.9	62
(2024/09/13 10:51:02.00)	48.7	57.3
(2024/09/13 10:54:02.00)	48.9	59.3
(2024/09/13 10:57:02.00)	47.6	58.3
(2024/09/13 11:00:02.00)	48	57.6
(2024/09/13 11:03:02.00)	49.3	60
(2024/09/13 11:06:02.00)	51.2	61.9
(2024/09/13 11:09:02.00)	49.5	61.8



(2024/09/13 11:12:02.00)	48.3	59.3
(2024/09/13 11:15:02.00)	47	62.5
(2024/09/13 11:18:02.00)	50.4	62.9
(2024/09/13 11:21:02.00)	51.8	67.2
(2024/09/13 11:24:02.00)	48.5	60.7
(2024/09/13 11:27:02.00)	49.4	58.5
(2024/09/13 11:30:02.00)	49.9	59.3
(2024/09/13 11:33:02.00)	48.9	60.8
(2024/09/13 11:36:02.00)	46.2	58.6
(2024/09/13 11:39:02.00)	47.7	58.8
(2024/09/13 11:42:02.00)	46.6	57.8
(2024/09/13 11:45:02.00)	47.3	58.4
(2024/09/13 11:48:02.00)	48.5	69.3
(2024/09/13 11:51:02.00)	51.2	63.6
(2024/09/13 11:54:02.00)	49	62.5
(2024/09/13 11:57:02.00)	69.4	87.4
(2024/09/13 12:00:02.00)	50.4	67.1
(2024/09/13 12:03:02.00)	47.3	57.4
(2024/09/13 12:06:02.00)	48.8	59.9
(2024/09/13 12:09:02.00)	48.9	58.3
(2024/09/13 12:12:02.00)	49.7	60.5
(2024/09/13 12:15:02.00)	49.2	63.2
(2024/09/13 12:18:02.00)	47.5	56.8
(2024/09/13 12:21:02.00)	50.5	59.4
(2024/09/13 12:24:02.00)	51.3	68.1
(2024/09/13 12:27:02.00)	61.4	82.3
(2024/09/13 12:30:02.00)	51.7	60.6
(2024/09/13 12:33:02.00)	45	53.4
(2024/09/13 12:36:02.00)	48.6	66.8
(2024/09/13 12:39:02.00)	47.5	57.5
(2024/09/13 12:42:02.00)	47.4	62.3
(2024/09/13 12:45:02.00)	49.9	61.5
(2024/09/13 12:48:02.00)	52.6	67.2
(2024/09/13 12:51:02.00)	51.6	63.7
(2024/09/13 12:54:02.00)	53.2	69.3
(2024/09/13 12:57:02.00)	48.5	62.6
(2024/09/13 13:00:02.00)	50.1	69.3
(2024/09/13 13:03:02.00)	48.7	59.7
(2024/09/13 13:06:02.00)	50.3	67.3
(2024/09/13 13:09:02.00)	49.4	72.7
(2024/09/13 13:12:02.00)	51.7	67.5
(2024/09/13 13:15:02.00)	49.9	69
(2024/09/13 13:18:02.00)	46	54.7
(2024/09/13 13:21:02.00)	48	59.7
(2024/09/13 13:24:02.00)	51	63.8
(2024/09/13 13:27:02.00)	50.1	65.9



(2024/09/13 13:30:02.00)	49.2	60.8
(2024/09/13 13:33:02.00)	50.5	66.3
(2024/09/13 13:36:02.00)	53.2	68.4
(2024/09/13 13:39:02.00)	49.2	63
(2024/09/13 13:42:02.00)	47.8	55.4
(2024/09/13 13:45:02.00)	49.2	62.5
(2024/09/13 13:48:02.00)	51	69.2
(2024/09/13 13:51:02.00)	50.6	60.8
(2024/09/13 13:54:02.00)	51.6	58.6
(2024/09/13 13:57:02.00)	52.3	71.4
(2024/09/13 14:00:02.00)	50.8	65.9
(2024/09/13 14:03:02.00)	50.7	64.6
(2024/09/13 14:06:02.00)	53	68.6
(2024/09/13 14:09:02.00)	49.3	57.5
(2024/09/13 14:12:02.00)	51	62.5
(2024/09/13 14:15:02.00)	50.5	69
(2024/09/13 14:18:02.00)	49.9	64.5
(2024/09/13 14:21:02.00)	50	60.2
(2024/09/13 14:24:02.00)	51.4	62.9
(2024/09/13 14:27:02.00)	50.8	61
(2024/09/13 14:30:02.00)	59.1	77.2
(2024/09/13 14:33:02.00)	51.1	59.6
(2024/09/13 14:36:02.00)	50.8	63.6
(2024/09/13 14:39:02.00)	50.8	65
(2024/09/13 14:42:02.00)	54.9	74.2
(2024/09/13 14:45:02.00)	49.2	58.2
(2024/09/13 14:48:02.00)	54.7	67.1
(2024/09/13 14:51:02.00)	48.9	59.3
(2024/09/13 14:54:02.00)	51.3	63.2
(2024/09/13 14:57:02.00)	51.4	61.6
(2024/09/13 15:00:02.00)	50.9	62.9
(2024/09/13 15:03:02.00)	62.3	82.5
(2024/09/13 15:06:02.00)	49.6	59.1
(2024/09/13 15:09:02.00)	50	64.1
(2024/09/13 15:12:02.00)	50.6	63.3
(2024/09/13 15:15:02.00)	50	61.6
(2024/09/13 15:18:02.00)	52.6	68.7
(2024/09/13 15:21:02.00)	56.6	67.7
(2024/09/13 15:24:02.00)	52.7	60.4
(2024/09/13 15:27:02.00)	53.3	65.3
(2024/09/13 15:30:02.00)	54.9	66.5
(2024/09/13 15:33:02.00)	53.1	65.6
(2024/09/13 15:36:02.00)	53.6	63.5
(2024/09/13 15:39:02.00)	51.2	64.5
(2024/09/13 15:42:02.00)	51.6	62
(2024/09/13 15:45:02.00)	59.6	72.8



(2024/09/13 15:48:02.00)	56.7	76.7
(2024/09/13 15:51:02.00)	51.8	59.9
(2024/09/13 15:54:02.00)	54	69.5
(2024/09/13 15:57:02.00)	50.3	60.6
(2024/09/13 16:00:02.00)	50.3	61.7
(2024/09/13 16:03:02.00)	54.8	73.4
(2024/09/13 16:06:02.00)	53.1	71.2
(2024/09/13 16:09:02.00)	51.9	64.4
(2024/09/13 16:12:02.00)	52.9	63.1
(2024/09/13 16:15:02.00)	49.5	65.6
(2024/09/13 16:18:02.00)	53.2	64.3
(2024/09/13 16:21:02.00)	54.2	67.2
(2024/09/13 16:24:02.00)	53	70
(2024/09/13 16:27:02.00)	53.4	62.9
(2024/09/13 16:30:02.00)	56.9	67.6
(2024/09/13 16:33:02.00)	54.2	69.5
(2024/09/13 16:36:02.00)	53.3	68.2
(2024/09/13 16:39:02.00)	52.1	71.1
(2024/09/13 16:42:02.00)	57.1	80.5
(2024/09/13 16:45:02.00)	51	62.4
(2024/09/13 16:48:02.00)	53.1	75.1
(2024/09/13 16:51:02.00)	54.1	62.8
(2024/09/13 16:54:02.00)	51	59.1
(2024/09/13 16:57:02.00)	52.5	63.9
(2024/09/13 17:00:02.00)	53.6	67.5
(2024/09/13 17:03:02.00)	50.4	62.2
(2024/09/13 17:06:02.00)	52.6	63.9
(2024/09/13 17:09:02.00)	51.7	62.5
(2024/09/13 17:12:02.00)	50.4	64.6
(2024/09/13 17:15:02.00)	50.6	59.7
(2024/09/13 17:18:02.00)	51.4	62.7
(2024/09/13 17:21:02.00)	56.1	68.8
(2024/09/13 17:24:02.00)	52.6	64.4
(2024/09/13 17:27:02.00)	48.6	62
(2024/09/13 17:30:02.00)	49.7	59.1
(2024/09/13 17:33:02.00)	52.1	65.8
(2024/09/13 17:36:02.00)	52.9	68.7
(2024/09/13 17:39:02.00)	50.8	69.7
(2024/09/13 17:42:02.00)	49.8	63.7
(2024/09/13 17:45:02.00)	50.1	60.2
(2024/09/13 17:48:02.00)	51.7	65
(2024/09/13 17:51:02.00)	50.2	58
(2024/09/13 17:54:02.00)	51.8	65.5
(2024/09/13 17:57:02.00)	51.3	67.5
(2024/09/13 18:00:02.00)	50.6	57.6
(2024/09/13 18:03:02.00)	51.1	61.7



(2024/09/13 18:06:02.00)	53	70.6
(2024/09/13 18:09:02.00)	63.2	81
(2024/09/13 18:12:02.00)	51.2	61.3
(2024/09/13 18:15:02.00)	53.9	70.8
(2024/09/13 18:18:02.00)	50.8	59.4
(2024/09/13 18:21:02.00)	53.1	64.5
(2024/09/13 18:24:02.00)	51	63.4
(2024/09/13 18:27:02.00)	52.2	68.4
(2024/09/13 18:30:02.00)	52.1	67.6
(2024/09/13 18:33:02.00)	50.9	59.8
(2024/09/13 18:36:02.00)	49.3	56.9
(2024/09/13 18:39:02.00)	52.1	63.2
(2024/09/13 18:42:02.00)	50.4	71.1
(2024/09/13 18:45:02.00)	52	62.9
(2024/09/13 18:48:02.00)	51.5	61.3
(2024/09/13 18:51:02.00)	51.5	61.5
(2024/09/13 18:54:02.00)	51.7	64.4
(2024/09/13 18:57:02.00)	50.6	64.5
(2024/09/13 19:00:02.00)	51.3	63.2
(2024/09/13 19:03:02.00)	62.4	78.3
(2024/09/13 19:06:02.00)	53	71.4
(2024/09/13 19:09:02.00)	51.6	59.1
(2024/09/13 19:12:02.00)	49.1	60.8
(2024/09/13 19:15:02.00)	49.6	55.6
(2024/09/13 19:18:02.00)	50.1	63.6
(2024/09/13 19:21:02.00)	53.1	65.1
(2024/09/13 19:24:02.00)	52.7	64.6
(2024/09/13 19:27:02.00)	51.9	60.2
(2024/09/13 19:30:02.00)	50.1	59
(2024/09/13 19:33:02.00)	50.6	59.8
(2024/09/13 19:36:02.00)	49.9	60.3
(2024/09/13 19:39:02.00)	52	71.3
(2024/09/13 19:42:02.00)	50.8	59.3
(2024/09/13 19:45:02.00)	51.6	59.5
(2024/09/13 19:48:02.00)	53.8	70.8
(2024/09/13 19:51:02.00)	49.7	63.5
(2024/09/13 19:54:02.00)	54.7	63.6
(2024/09/13 19:57:02.00)	52.7	65.3
(2024/09/13 20:00:02.00)	49.9	58.1
(2024/09/13 20:03:02.00)	50	56.7
(2024/09/13 20:06:02.00)	50.4	63.1
(2024/09/13 20:09:02.00)	53.7	72.4
(2024/09/13 20:12:02.00)	50	58.5
(2024/09/13 20:15:02.00)	49.2	54.1
(2024/09/13 20:18:02.00)	49.5	60
(2024/09/13 20:21:02.00)	50.2	60.2



(2024/09/13 20:24:02.00)	50.9	63.6
(2024/09/13 20:27:02.00)	49.9	60.1
(2024/09/13 20:30:02.00)	50.2	65.3
(2024/09/13 20:33:02.00)	52.2	71.2
(2024/09/13 20:36:02.00)	48.9	70.2
(2024/09/13 20:39:02.00)	50.1	63.3
(2024/09/13 20:42:02.00)	50.3	61.8
(2024/09/13 20:45:02.00)	50.6	60.7
(2024/09/13 20:48:02.00)	49	55.3
(2024/09/13 20:51:02.00)	47.3	54.6
(2024/09/13 20:54:02.00)	47.4	53.7
(2024/09/13 20:57:02.00)	50	57.1
(2024/09/13 21:00:02.00)	49.7	61
(2024/09/13 21:03:02.00)	50.4	59.7
(2024/09/13 21:06:02.00)	50.9	64.5
(2024/09/13 21:09:02.00)	51.3	57.8
(2024/09/13 21:12:02.00)	50.6	62.2
(2024/09/13 21:15:02.00)	50.9	58.1
(2024/09/13 21:18:02.00)	50	57.6
(2024/09/13 21:21:02.00)	49.1	55.8
(2024/09/13 21:24:02.00)	48.8	60.8
(2024/09/13 21:27:02.00)	48.8	65.1
(2024/09/13 21:30:02.00)	49.2	61.8
(2024/09/13 21:33:02.00)	50.8	67
(2024/09/13 21:36:02.00)	48.7	55.2
(2024/09/13 21:39:02.00)	52.4	71.2
(2024/09/13 21:42:02.00)	50.5	73.9
(2024/09/13 21:45:02.00)	50	58.5
(2024/09/13 21:48:02.00)	50.5	59.4
(2024/09/13 21:51:02.00)	49.5	57.5
(2024/09/13 21:54:02.00)	48	52.7
(2024/09/13 21:57:02.00)	48.6	55.3
(2024/09/13 22:00:02.00)	49.3	58.1
(2024/09/13 22:03:02.00)	47.9	59.6
(2024/09/13 22:06:02.00)	50.5	60.5
(2024/09/13 22:09:02.00)	50.4	58.6
(2024/09/13 22:12:02.00)	51	61.8
(2024/09/13 22:15:02.00)	47.8	61.1
(2024/09/13 22:18:02.00)	49.5	59.8
(2024/09/13 22:21:02.00)	48.3	55.4
(2024/09/13 22:24:02.00)	46.9	51.6
(2024/09/13 22:27:02.00)	47.5	57
(2024/09/13 22:30:02.00)	48.8	57.8
(2024/09/13 22:33:02.00)	47.9	53.4
(2024/09/13 22:36:02.00)	46.8	53.1
(2024/09/13 22:39:02.00)	48.4	61

(2024/09/13 22:42:02.00)	47	54.6
(2024/09/13 22:45:02.00)	49.3	65.3
(2024/09/13 22:48:02.00)	48.2	52.8
(2024/09/13 22:51:02.00)	48.1	56.5
(2024/09/13 22:54:02.00)	49.5	55.4
(2024/09/13 22:57:02.00)	48.7	56.5
(2024/09/13 23:00:02.00)	55.6	73.7
(2024/09/13 23:03:02.00)	49	58.6
(2024/09/13 23:06:02.00)	48.5	57.4
(2024/09/13 23:09:02.00)	50.4	64
(2024/09/13 23:12:02.00)	47.4	54.1
(2024/09/13 23:15:02.00)	47.9	62.8
(2024/09/13 23:18:02.00)	45.9	51.8
(2024/09/13 23:21:02.00)	49.5	65
(2024/09/13 23:24:02.00)	46	50
(2024/09/13 23:27:02.00)	45.5	49.6
(2024/09/13 23:30:02.00)	45.1	48.4
(2024/09/13 23:33:02.00)	45.5	51.2
(2024/09/13 23:36:02.00)	45.4	50.5
(2024/09/13 23:39:02.00)	45.2	56.4
(2024/09/13 23:42:02.00)	44.8	53.6
(2024/09/13 23:45:02.00)	44.4	49.5
(2024/09/13 23:48:02.00)	45.4	54.1
(2024/09/13 23:51:02.00)	44.7	52.7
(2024/09/13 23:54:02.00)	49.1	62
(2024/09/13 23:57:02.00)	43.2	53.2
(2024/09/14 00:00:03.00)	42.6	48.7
(2024/09/14 00:03:02.00)	43.6	49.7
(2024/09/14 00:06:02.00)	41.7	48.7
(2024/09/14 00:09:02.00)	41.3	49.7
(2024/09/14 00:12:02.00)	43	50.9
(2024/09/14 00:15:02.00)	44	51.4
(2024/09/14 00:18:02.00)	43.5	50
(2024/09/14 00:21:02.00)	41.8	47
(2024/09/14 00:24:02.00)	42	49.9
(2024/09/14 00:27:02.00)	43.8	55.8
(2024/09/14 00:30:02.00)	43.6	52.7
(2024/09/14 00:33:02.00)	44.2	51.8
(2024/09/14 00:36:02.00)	42.6	51.9
(2024/09/14 00:39:02.00)	42.5	48.8
(2024/09/14 00:42:02.00)	44.6	54.5
(2024/09/14 00:45:02.00)	45.4	60.6
(2024/09/14 00:48:02.00)	42.3	47.9
(2024/09/14 00:51:02.00)	47.1	59.2
(2024/09/14 00:54:02.00)	41.4	48.1
(2024/09/14 00:57:02.00)	44.1	56.6



(2024/09/14 01:00:02.00)	45.5	56.4
(2024/09/14 01:03:02.00)	41.4	48.4
(2024/09/14 01:06:02.00)	42.7	46.7
(2024/09/14 01:09:02.00)	43.6	53.6
(2024/09/14 01:12:02.00)	45.7	62.1
(2024/09/14 01:15:02.00)	42.5	56.1
(2024/09/14 01:18:02.00)	41.9	47
(2024/09/14 01:21:02.00)	41.5	50.7
(2024/09/14 01:24:02.00)	41.6	46.3
(2024/09/14 01:27:02.00)	39.5	46.9
(2024/09/14 01:30:02.00)	39.7	47.9
(2024/09/14 01:33:02.00)	41.9	53.5
(2024/09/14 01:36:02.00)	45.8	58.7
(2024/09/14 01:39:02.00)	46.1	55.5
(2024/09/14 01:42:02.00)	43.9	50.6
(2024/09/14 01:45:02.00)	43.6	53
(2024/09/14 01:48:02.00)	43.2	50.4
(2024/09/14 01:51:02.00)	45.1	55.4
(2024/09/14 01:54:02.00)	42.5	51.6
(2024/09/14 01:57:02.00)	42.2	49.7
(2024/09/14 02:00:02.00)	42.8	48.3
(2024/09/14 02:03:02.00)	44.3	54.2
(2024/09/14 02:06:02.00)	41.5	47.4
(2024/09/14 02:09:02.00)	39.7	46.9
(2024/09/14 02:12:02.00)	42.6	51.1
(2024/09/14 02:15:02.00)	42.5	48.8
(2024/09/14 02:18:02.00)	41.3	47.4
(2024/09/14 02:21:02.00)	39.7	46.3
(2024/09/14 02:24:02.00)	38.4	44.9
(2024/09/14 02:27:02.00)	42.6	56.8
(2024/09/14 02:30:02.00)	37.4	41.6
(2024/09/14 02:33:02.00)	40.1	47.7
(2024/09/14 02:36:02.00)	40.7	48.9
(2024/09/14 02:39:02.00)	40.1	45.3
(2024/09/14 02:42:02.00)	39.4	46.5
(2024/09/14 02:45:02.00)	36.5	43.9
(2024/09/14 02:48:02.00)	39.1	44.4
(2024/09/14 02:51:02.00)	39.5	44.9
(2024/09/14 02:54:02.00)	39.9	48.4
(2024/09/14 02:57:02.00)	39.3	47.4
(2024/09/14 03:00:02.00)	39.7	62.6
(2024/09/14 03:03:02.00)	39.3	44.8
(2024/09/14 03:06:02.00)	43.7	55.8
(2024/09/14 03:09:02.00)	39	52.7
(2024/09/14 03:12:02.00)	39.6	46.9
(2024/09/14 03:15:02.00)	37.6	42.1



(2024/09/14 03:18:02.00)	37.5	44.8
(2024/09/14 03:21:02.00)	40	48.1
(2024/09/14 03:24:02.00)	37.7	42.7
(2024/09/14 03:27:02.00)	39.6	46.9
(2024/09/14 03:30:02.00)	38.8	47.7
(2024/09/14 03:33:02.00)	38.4	47.7
(2024/09/14 03:36:02.00)	37.6	43.5
(2024/09/14 03:39:02.00)	51.4	71
(2024/09/14 03:42:02.00)	39.7	46.8
(2024/09/14 03:45:03.00)	38.3	44.9
(2024/09/14 03:48:02.00)	39.1	44.8
(2024/09/14 03:51:02.00)	39.5	43.8
(2024/09/14 03:54:02.00)	41.4	46.7
(2024/09/14 03:57:02.00)	42	51.2
(2024/09/14 04:00:02.00)	41.8	49.4
(2024/09/14 04:03:02.00)	41.7	44.8
(2024/09/14 04:06:02.00)	41.2	45.5
(2024/09/14 04:09:02.00)	40.9	45.7
(2024/09/14 04:12:02.00)	41	45.5
(2024/09/14 04:15:02.00)	41.2	45.6
(2024/09/14 04:18:02.00)	40.9	47
(2024/09/14 04:21:02.00)	41.2	45.7
(2024/09/14 04:24:02.00)	45.1	59.3
(2024/09/14 04:27:02.00)	39.5	46.7
(2024/09/14 04:30:02.00)	39.9	44.4
(2024/09/14 04:33:02.00)	41.3	44.1
(2024/09/14 04:36:02.00)	42.6	46.5
(2024/09/14 04:39:02.00)	41.7	46.8
(2024/09/14 04:42:02.00)	42	47.7
(2024/09/14 04:45:02.00)	40.5	46.1
(2024/09/14 04:48:02.00)	39.9	47.1
(2024/09/14 04:51:02.00)	42	45.3
(2024/09/14 04:54:02.00)	42.6	48.3
(2024/09/14 04:57:02.00)	41.2	47.9
(2024/09/14 05:00:02.00)	44.3	61.4
(2024/09/14 05:03:02.00)	45.9	62
(2024/09/14 05:06:02.00)	41.6	47.9
(2024/09/14 05:09:02.00)	41	45.2
(2024/09/14 05:12:02.00)	42.1	46.9
(2024/09/14 05:15:02.00)	45.6	60.4
(2024/09/14 05:18:02.00)	44.7	57.8
(2024/09/14 05:21:02.00)	42.9	47.9
(2024/09/14 05:24:02.00)	43.3	47.2
(2024/09/14 05:27:02.00)	43.2	49
(2024/09/14 05:30:02.00)	44.4	50.9
(2024/09/14 05:33:02.00)	44.5	49.1



(2024/09/14 05:36:02.00)	47.4	59.2
(2024/09/14 05:39:02.00)	45.2	48.3
(2024/09/14 05:42:02.00)	45.2	52.8
(2024/09/14 05:45:02.00)	45.6	54.6
(2024/09/14 05:48:02.00)	44.7	48.9
(2024/09/14 05:51:02.00)	45	49.3
(2024/09/14 05:54:02.00)	47.1	54.6
(2024/09/14 05:57:02.00)	47.3	56.9
(2024/09/14 06:00:02.00)	46	49.3
(2024/09/14 06:03:02.00)	45.2	48.6
(2024/09/14 06:06:02.00)	46.8	55.2
(2024/09/14 06:09:02.00)	50.5	63.3
(2024/09/14 06:12:02.00)	46.9	51.5
(2024/09/14 06:15:02.00)	46.9	50.7
(2024/09/14 06:18:02.00)	47.1	54.7
(2024/09/14 06:21:02.00)	47.6	53.1
(2024/09/14 06:24:02.00)	47.2	55.9
(2024/09/14 06:27:02.00)	49.4	59.7
(2024/09/14 06:30:02.00)	50.1	59.4
(2024/09/14 06:33:02.00)	48.6	55.1
(2024/09/14 06:36:02.00)	48.4	52.6
(2024/09/14 06:39:02.00)	50.9	60.6
(2024/09/14 06:42:02.00)	49.6	56.9
(2024/09/14 06:45:02.00)	48.5	55.5
(2024/09/14 06:48:02.00)	48.8	55
(2024/09/14 06:51:02.00)	50.1	60.1
(2024/09/14 06:54:02.00)	49.7	58.5
(2024/09/14 06:57:02.00)	49.2	54.9
(2024/09/14 07:00:02.00)	50.5	65.6
(2024/09/14 07:03:02.00)	50.5	57.1
(2024/09/14 07:06:02.00)	49.5	56.4
(2024/09/14 07:09:02.00)	49.3	52.5
(2024/09/14 07:12:02.00)	49.2	65.3
(2024/09/14 07:15:02.00)	50	66
(2024/09/14 07:18:02.00)	50.5	56.3
(2024/09/14 07:21:02.00)	51.8	61.4
(2024/09/14 07:24:02.00)	52	63.1
(2024/09/14 07:27:02.00)	51.1	57.3
(2024/09/14 07:30:02.00)	51.4	56.7
(2024/09/14 07:33:02.00)	50.9	53.7
(2024/09/14 07:36:02.00)	53.2	67.5
(2024/09/14 07:39:02.00)	51.4	60.6
(2024/09/14 07:42:02.00)	54.6	72.7
(2024/09/14 07:45:02.00)	51.1	57.5
(2024/09/14 07:48:02.00)	50	53.7
(2024/09/14 07:51:02.00)	51.9	60.8

(2024/09/14 07:54:02.00)	51.3	59.1
(2024/09/14 07:57:02.00)	50.3	64
(2024/09/14 08:00:02.00)	51.8	58.9
(2024/09/14 08:03:02.00)	53.7	70.1
(2024/09/14 08:06:02.00)	52.3	70.6
(2024/09/14 08:09:02.00)	52.2	67
(2024/09/14 08:12:02.00)	52.1	71.2
(2024/09/14 08:15:02.00)	51.7	65.7
(2024/09/14 08:18:02.00)	51.5	62.2
(2024/09/14 08:21:02.00)	50.7	57.5
(2024/09/14 08:24:02.00)	54.4	64.7
(2024/09/14 08:27:02.00)	53.9	65.3
(2024/09/14 08:30:02.00)	53.5	64.9
(2024/09/14 08:33:02.00)	52	66.1
(2024/09/14 08:36:02.00)	50.8	61.2
(2024/09/14 08:39:02.00)	50.1	59.7
(2024/09/14 08:42:02.00)	53.5	68.8
(2024/09/14 08:45:02.00)	50.7	61.1
(2024/09/14 08:48:02.00)	54.8	69.1
(2024/09/14 08:51:02.00)	50.7	61.3
(2024/09/14 08:54:02.00)	62.3	83.3
(2024/09/14 08:57:02.00)	60.3	79.3
(2024/09/14 09:00:02.00)	51.4	60.6
(2024/09/14 09:03:02.00)	53.6	70.5
(2024/09/14 09:06:02.00)	49.3	57.7
(2024/09/14 09:09:02.00)	48.3	57.1
(2024/09/14 09:12:02.00)	49.3	62.3
(2024/09/14 09:15:02.00)	50.3	61.9
(2024/09/14 09:18:02.00)	47.1	57.2
(2024/09/14 09:21:02.00)	49.5	59.8
(2024/09/14 09:24:02.00)	47.7	56.2
(2024/09/14 09:27:02.00)	47.3	56.4
(2024/09/14 09:30:02.00)	49.4	59.5
(2024/09/14 09:33:02.00)	45.7	56
(2024/09/14 09:36:02.00)	58.9	76.6
(2024/09/14 09:39:02.00)	55.6	65.6
(2024/09/14 09:42:02.00)	49.7	60.5
(2024/09/14 09:45:02.00)	45.7	53.1
(2024/09/14 09:48:02.00)	50.4	63.3
(2024/09/14 09:51:02.00)	51	61.9
(2024/09/14 09:54:02.00)	51.4	67.4
(2024/09/14 09:57:02.00)	53	60.6
(2024/09/14 10:00:02.00)	48	59.4
(2024/09/14 10:03:02.00)	55.1	73.6
(2024/09/14 10:06:02.00)	53.1	72.5
(2024/09/14 10:09:02.00)	51.4	61.4



(2024/09/14 10:12:02.00)	49.3	62.1
(2024/09/14 10:15:02.00)	45.9	54.5
(2024/09/14 10:18:02.00)	50.6	64.1
(2024/09/14 10:21:02.00)	48.1	63.2
(2024/09/14 10:24:02.00)	49.9	61.4
(2024/09/14 10:27:02.00)	58.2	77.2
(2024/09/14 10:30:02.00)	50.5	59.8
(2024/09/14 10:33:02.00)	47.4	57.7
(2024/09/14 10:36:02.00)	48.2	57.5
(2024/09/14 10:39:02.00)	48.4	58.6
(2024/09/14 10:42:02.00)	50.1	59.2
(2024/09/14 10:45:02.00)	47.9	58.6
(2024/09/14 10:48:02.00)	51.4	61.5
(2024/09/14 10:51:02.00)	51.5	61.5
(2024/09/14 10:54:02.00)	44.6	51.9
(2024/09/14 10:57:02.00)	52.4	70.1
(2024/09/14 11:00:02.00)	49.6	61.5
(2024/09/14 11:03:02.00)	51.3	61.1
(2024/09/14 11:06:02.00)	46.2	58.5
(2024/09/14 11:09:02.00)	47.1	56.5
(2024/09/14 11:12:02.00)	45.9	56.6
(2024/09/14 11:15:02.00)	49.1	60.2
(2024/09/14 11:18:02.00)	47.2	59.2
(2024/09/14 11:21:02.00)	48.8	59.2
(2024/09/14 11:24:02.00)	49.7	60.9
(2024/09/14 11:27:02.00)	48.4	55.9
(2024/09/14 11:30:02.00)	50	61.1
(2024/09/14 11:33:02.00)	50.7	59.8
(2024/09/14 11:36:02.00)	49.4	59.2
(2024/09/14 11:39:02.00)	48.9	56.9
(2024/09/14 11:42:02.00)	53.1	65
(2024/09/14 11:45:02.00)	50.1	59.7
(2024/09/14 11:48:02.00)	49.5	61.7
(2024/09/14 11:51:02.00)	51.2	64.6
(2024/09/14 11:54:02.00)	51.1	69.2
(2024/09/14 11:57:02.00)	51.5	65.7
(2024/09/14 12:00:02.00)	56.5	68.6
(2024/09/14 12:03:02.00)	48.9	66.3
(2024/09/14 12:06:02.00)	69.2	86.9
(2024/09/14 12:09:02.00)	52	63.8
(2024/09/14 12:12:02.00)	49.5	66.7
(2024/09/14 12:15:02.00)	51.9	63.2
(2024/09/14 12:18:02.00)	51.7	64.6
(2024/09/14 12:21:02.00)	55.8	76.5
(2024/09/14 12:24:02.00)	54.8	73.4
(2024/09/14 12:27:02.00)	53.2	65.9



(2024/09/14 12:30:02.00)	52	67.4
(2024/09/14 12:33:02.00)	47.5	54.7
(2024/09/14 12:36:02.00)	50.5	60.9
(2024/09/14 12:39:02.00)	51.5	61.8
(2024/09/14 12:42:02.00)	50.1	64.8
(2024/09/14 12:45:02.00)	51.2	58.8
(2024/09/14 12:48:02.00)	51.3	60.5
(2024/09/14 12:51:02.00)	51.7	69.1
(2024/09/14 12:54:02.00)	51.6	64
(2024/09/14 12:57:02.00)	52.1	65.9
(2024/09/14 13:00:02.00)	52.6	70.7
(2024/09/14 13:03:02.00)	55.2	66.5
(2024/09/14 13:06:02.00)	51.1	60.1
(2024/09/14 13:09:02.00)	51.6	61.5
(2024/09/14 13:12:02.00)	57	75.5
(2024/09/14 13:15:02.00)	55	70.4
(2024/09/14 13:18:02.00)	54.8	68.1
(2024/09/14 13:21:02.00)	56.2	69.2
(2024/09/14 13:24:02.00)	58.7	77.7
(2024/09/14 13:27:02.00)	64.7	84.1
(2024/09/14 13:30:02.00)	60.5	78.8
(2024/09/14 13:33:02.00)	63.5	77.8
(2024/09/14 13:36:02.00)	57.8	71
(2024/09/14 13:39:02.00)	57	69.1
(2024/09/14 13:42:02.00)	56.2	69.4
(2024/09/14 13:45:02.00)	58	78.4
(2024/09/14 13:48:02.00)	56.9	70.8
(2024/09/14 13:51:02.00)	55.8	71.8
(2024/09/14 13:54:02.00)	55.8	70.8
(2024/09/14 13:57:02.00)	58.5	75.2
(2024/09/14 14:00:02.00)	59.7	77
(2024/09/14 14:03:02.00)	56.9	66.8
(2024/09/14 14:06:02.00)	61.1	75.8
(2024/09/14 14:09:02.00)	63.6	79.1
(2024/09/14 14:12:02.00)	62.1	82
(2024/09/14 14:15:02.00)	61	78.2
(2024/09/14 14:18:02.00)	59.8	75.6
(2024/09/14 14:21:02.00)	66	81.3
(2024/09/14 14:24:02.00)	63.1	75.8
(2024/09/14 14:27:02.00)	64.9	79.5
(2024/09/14 14:30:02.00)	62.3	77.7
(2024/09/14 14:33:02.00)	63.3	79.2
(2024/09/14 14:36:02.00)	60.9	78.5
(2024/09/14 14:39:02.00)	61.7	80.5
(2024/09/14 14:42:02.00)	64.1	79.8
(2024/09/14 14:45:02.00)	61.8	78.8



(2024/09/14 14:48:02.00)	62.7	79.7
(2024/09/14 14:51:02.00)	61.2	77.1
(2024/09/14 14:54:02.00)	56	69.9
(2024/09/14 14:57:02.00)	56.5	69.2
(2024/09/14 15:00:02.00)	56	72.9
(2024/09/14 15:03:02.00)	53.7	67
(2024/09/14 15:06:02.00)	59.3	73.5
(2024/09/14 15:09:02.00)	57.5	80.1
(2024/09/14 15:12:02.00)	60.1	80.1
(2024/09/14 15:15:02.00)	58.9	72.6
(2024/09/14 15:18:02.00)	69.3	88.3
(2024/09/14 15:21:02.00)	61.1	79.6
(2024/09/14 15:24:02.00)	59.7	75.5
(2024/09/14 15:27:02.00)	60	77.7
(2024/09/14 15:30:02.00)	55.6	67.5
(2024/09/14 15:33:02.00)	57	71.6
(2024/09/14 15:36:02.00)	56.5	77.4
(2024/09/14 15:39:02.00)	51.9	68
(2024/09/14 15:42:02.00)	52.9	69.2
(2024/09/14 15:45:02.00)	55	71.8
(2024/09/14 15:48:02.00)	51.2	62.3
(2024/09/14 15:51:02.00)	48.6	65
(2024/09/14 15:54:02.00)	51	59.3
(2024/09/14 15:57:02.00)	49.3	62.2
(2024/09/14 16:00:02.00)	50.3	70
(2024/09/14 16:03:02.00)	51.3	68.3
(2024/09/14 16:06:02.00)	54.1	65.5
(2024/09/14 16:09:02.00)	53.6	69.7
(2024/09/14 16:12:02.00)	55.8	76.1
(2024/09/14 16:15:02.00)	53.4	71.2
(2024/09/14 16:18:02.00)	52	66.5
(2024/09/14 16:21:02.00)	50.5	63.7
(2024/09/14 16:24:02.00)	50.6	66.5
(2024/09/14 16:27:02.00)	50.6	58.3
(2024/09/14 16:30:02.00)	50.9	63.1
(2024/09/14 16:33:02.00)	53.2	68.4
(2024/09/14 16:36:02.00)	53.8	68.6
(2024/09/14 16:39:02.00)	51.7	64.4
(2024/09/14 16:42:02.00)	54.8	67.1
(2024/09/14 16:45:02.00)	49.5	64.1
(2024/09/14 16:48:02.00)	50.2	64.6
(2024/09/14 16:51:02.00)	51.7	64.1
(2024/09/14 16:54:02.00)	55.3	76.5
(2024/09/14 16:57:02.00)	53.7	74.2
(2024/09/14 17:00:02.00)	61.1	80.7
(2024/09/14 17:03:02.00)	51.4	63.5



(2024/09/14 17:06:02.00)	49.5	55.5
(2024/09/14 17:09:02.00)	50.8	62.7
(2024/09/14 17:12:02.00)	52.9	63.2
(2024/09/14 17:15:02.00)	49.6	60.5
(2024/09/14 17:18:02.00)	49.8	62.8
(2024/09/14 17:21:02.00)	49.1	55.9
(2024/09/14 17:24:02.00)	48.2	56.6
(2024/09/14 17:27:02.00)	53.3	69.5
(2024/09/14 17:30:02.00)	49.7	66.9
(2024/09/14 17:33:02.00)	50.1	56.3
(2024/09/14 17:36:02.00)	50	62.2
(2024/09/14 17:39:02.00)	50	57.6
(2024/09/14 17:42:02.00)	50.4	61.5
(2024/09/14 17:45:02.00)	50.4	59.7
(2024/09/14 17:48:02.00)	52.8	66.7
(2024/09/14 17:51:02.00)	51.1	65
(2024/09/14 17:54:02.00)	50.5	60.6
(2024/09/14 17:57:02.00)	51.3	73.7
(2024/09/14 18:00:02.00)	50.5	59.9
(2024/09/14 18:03:02.00)	51.4	60.2
(2024/09/14 18:06:02.00)	51.4	60.8
(2024/09/14 18:09:02.00)	52.4	66.5
(2024/09/14 18:12:02.00)	51.6	61.6
(2024/09/14 18:15:02.00)	49	58.6
(2024/09/14 18:18:02.00)	52.5	66.5
(2024/09/14 18:21:02.00)	53.3	66.6
(2024/09/14 18:24:02.00)	56	69.4
(2024/09/14 18:27:02.00)	52.4	70.6
(2024/09/14 18:30:02.00)	52.3	66.8
(2024/09/14 18:33:02.00)	53.8	72.5
(2024/09/14 18:36:02.00)	51.5	67.5
(2024/09/14 18:39:02.00)	53	69.4
(2024/09/14 18:42:02.00)	50.7	63
(2024/09/14 18:45:02.00)	52.5	66.4
(2024/09/14 18:48:02.00)	55.1	73.6
(2024/09/14 18:51:02.00)	47.7	56.2
(2024/09/14 18:54:02.00)	49.6	57.2
(2024/09/14 18:57:02.00)	51	70.7
(2024/09/14 19:00:02.00)	47.9	57.4
(2024/09/14 19:03:02.00)	49.7	57
(2024/09/14 19:06:02.00)	51.5	63.8
(2024/09/14 19:09:02.00)	48.8	56.8
(2024/09/14 19:12:02.00)	51.5	70.3
(2024/09/14 19:15:02.00)	55.8	79.5
(2024/09/14 19:18:02.00)	52.4	66.6
(2024/09/14 19:21:02.00)	53.9	74.8



(2024/09/14 19:24:02.00)	51.3	70.2
(2024/09/14 19:27:02.00)	52.3	68.3
(2024/09/14 19:30:02.00)	53.7	74.7
(2024/09/14 19:33:02.00)	61.6	81.3
(2024/09/14 19:36:02.00)	51.1	62.3
(2024/09/14 19:39:02.00)	46.8	56.4
(2024/09/14 19:42:02.00)	49.6	59.7
(2024/09/14 19:45:02.00)	60.4	80.7
(2024/09/14 19:48:02.00)	45.9	59.1
(2024/09/14 19:51:02.00)	46.6	51.7
(2024/09/14 19:54:02.00)	47.8	55.4
(2024/09/14 19:57:02.00)	46.8	56.2
(2024/09/14 20:00:02.00)	49	67.4
(2024/09/14 20:03:02.00)	48.7	57.3
(2024/09/14 20:06:02.00)	46.3	54.9
(2024/09/14 20:09:02.00)	48.5	60.7
(2024/09/14 20:12:02.00)	47.5	56.4
(2024/09/14 20:15:02.00)	46.8	54.9
(2024/09/14 20:18:02.00)	49.4	64.7
(2024/09/14 20:21:02.00)	48.9	59.5
(2024/09/14 20:24:02.00)	47.8	58.3
(2024/09/14 20:27:02.00)	46.1	54.8
(2024/09/14 20:30:02.00)	50.7	61.2
(2024/09/14 20:33:02.00)	45.7	53.1
(2024/09/14 20:36:02.00)	49.5	59.9
(2024/09/14 20:39:02.00)	48.1	59
(2024/09/14 20:42:02.00)	46.5	57.6
(2024/09/14 20:45:02.00)	47.4	56
(2024/09/14 20:48:02.00)	45.4	52.9
(2024/09/14 20:51:02.00)	45.5	49
(2024/09/14 20:54:02.00)	45.2	53.2
(2024/09/14 20:57:02.00)	50	63.3
(2024/09/14 21:00:02.00)	46	57.5
(2024/09/14 21:03:02.00)	56.1	73
(2024/09/14 21:06:02.00)	48.7	57
(2024/09/14 21:09:02.00)	49.7	63.1
(2024/09/14 21:12:02.00)	47.5	56.3
(2024/09/14 21:15:02.00)	47	53
(2024/09/14 21:18:02.00)	48.2	57.8
(2024/09/14 21:21:02.00)	48.1	56.3
(2024/09/14 21:24:02.00)	45.4	52.7
(2024/09/14 21:27:02.00)	46.8	59.5
(2024/09/14 21:30:02.00)	47.1	60.8
(2024/09/14 21:33:02.00)	47.6	56.3
(2024/09/14 21:36:02.00)	47.4	61.6
(2024/09/14 21:39:02.00)	49.3	63.3



(2024/09/14 21:42:02.00)	45.2	47.3
(2024/09/14 21:45:02.00)	46.3	51.7
(2024/09/14 21:48:02.00)	47.2	56.8
(2024/09/14 21:51:02.00)	46.6	52.8
(2024/09/14 21:54:02.00)	48.1	59
(2024/09/14 21:57:02.00)	47.7	60.1
(2024/09/14 22:00:02.00)	48.5	59
(2024/09/14 22:03:02.00)	49.4	57.5
(2024/09/14 22:06:02.00)	48.4	58.2
(2024/09/14 22:09:02.00)	49.2	63.5
(2024/09/14 22:12:02.00)	47.8	58
(2024/09/14 22:15:02.00)	46.3	51
(2024/09/14 22:18:02.00)	48.2	58.4
(2024/09/14 22:21:02.00)	49.7	64.9
(2024/09/14 22:24:02.00)	47.6	58
(2024/09/14 22:27:02.00)	45.9	57.3
(2024/09/14 22:30:02.00)	65.5	82.8
(2024/09/14 22:33:02.00)	46.1	60.2
(2024/09/14 22:36:02.00)	46.3	58.7
(2024/09/14 22:39:02.00)	44.1	48.2
(2024/09/14 22:42:02.00)	45.7	50.4
(2024/09/14 22:45:02.00)	46.2	53.4
(2024/09/14 22:48:02.00)	47.3	56.4
(2024/09/14 22:51:02.00)	48.2	58.5
(2024/09/14 22:54:02.00)	45.9	55.3
(2024/09/14 22:57:02.00)	47.2	55.6
(2024/09/14 23:00:02.00)	48.9	60.8
(2024/09/14 23:03:02.00)	45	52.3
(2024/09/14 23:06:02.00)	47.2	55.7
(2024/09/14 23:09:02.00)	45.3	53.1
(2024/09/14 23:12:02.00)	46.5	52.5
(2024/09/14 23:15:02.00)	48.5	62.2
(2024/09/14 23:18:02.00)	47	56.3
(2024/09/14 23:21:02.00)	47.1	59.9
(2024/09/14 23:24:02.00)	44.9	50.3
(2024/09/14 23:27:02.00)	43.9	50.7
(2024/09/14 23:30:02.00)	43.2	46.2
(2024/09/14 23:33:02.00)	46.2	58.9
(2024/09/14 23:36:02.00)	43.9	50.2
(2024/09/14 23:39:02.00)	43.6	50.4
(2024/09/14 23:42:02.00)	43.5	46.6
(2024/09/14 23:45:02.00)	45.7	56.9
(2024/09/14 23:48:02.00)	45.5	53
(2024/09/14 23:51:02.00)	43.5	50.3
(2024/09/14 23:54:02.00)	44.6	53.9
(2024/09/14 23:57:02.00)	44.5	57.6



(2024/09/15 00:00:03.00)	42.9	51.3
(2024/09/15 00:03:02.00)	42.6	50.9
(2024/09/15 00:06:02.00)	42.5	46.2
(2024/09/15 00:09:02.00)	41.8	46.3
(2024/09/15 00:12:02.00)	43.8	53.5
(2024/09/15 00:15:02.00)	44.2	56.3
(2024/09/15 00:18:02.00)	42.9	48.1
(2024/09/15 00:21:02.00)	42.5	47.8
(2024/09/15 00:24:02.00)	44.6	55.5
(2024/09/15 00:27:02.00)	41.8	47.6
(2024/09/15 00:30:02.00)	42	45.5
(2024/09/15 00:33:02.00)	47.3	61.1
(2024/09/15 00:36:02.00)	41.8	48.4
(2024/09/15 00:39:02.00)	44.6	57.6
(2024/09/15 00:42:02.00)	41.3	45.8
(2024/09/15 00:45:02.00)	42	46.6
(2024/09/15 00:48:02.00)	43.6	52.3
(2024/09/15 00:51:02.00)	40.2	45.8
(2024/09/15 00:54:02.00)	40.2	47.2
(2024/09/15 00:57:02.00)	40.9	46.5
(2024/09/15 01:00:02.00)	40.8	46.6
(2024/09/15 01:03:02.00)	41.1	47.6
(2024/09/15 01:06:02.00)	40.5	47.7
(2024/09/15 01:09:02.00)	39.8	45.6
(2024/09/15 01:12:02.00)	39.9	47
(2024/09/15 01:15:02.00)	39.6	46.3
(2024/09/15 01:18:02.00)	38.4	44.5
(2024/09/15 01:21:02.00)	38.5	41.4
(2024/09/15 01:24:02.00)	50.2	68.2
(2024/09/15 01:27:02.00)	38.7	43.6
(2024/09/15 01:30:02.00)	40.1	46.6
(2024/09/15 01:33:02.00)	39.7	44.1
(2024/09/15 01:36:02.00)	39.3	46.6
(2024/09/15 01:39:02.00)	39.9	44.1
(2024/09/15 01:42:02.00)	40.9	46.5
(2024/09/15 01:45:02.00)	39.8	45.8
(2024/09/15 01:48:02.00)	44.1	57.5
(2024/09/15 01:51:02.00)	40.8	45
(2024/09/15 01:54:02.00)	43.4	51
(2024/09/15 01:57:02.00)	42.1	47
(2024/09/15 02:00:02.00)	41.5	44.4
(2024/09/15 02:03:02.00)	40.8	44.9
(2024/09/15 02:06:02.00)	41.1	44.3
(2024/09/15 02:09:02.00)	40.2	44.1
(2024/09/15 02:12:02.00)	41.8	47.9
(2024/09/15 02:15:02.00)	44.3	56.9



(2024/09/15 02:18:02.00)	44	52.8
(2024/09/15 02:21:02.00)	44.8	53.4
(2024/09/15 02:24:02.00)	43.9	54.2
(2024/09/15 02:27:02.00)	41.2	46
(2024/09/15 02:30:02.00)	40.4	44.5
(2024/09/15 02:33:02.00)	40	43.2
(2024/09/15 02:36:02.00)	40.3	44.2
(2024/09/15 02:39:02.00)	40.6	46.6
(2024/09/15 02:42:02.00)	40.7	45
(2024/09/15 02:45:02.00)	40.1	46.2
(2024/09/15 02:48:02.00)	40.9	46
(2024/09/15 02:51:02.00)	39.7	44.4
(2024/09/15 02:54:02.00)	40.8	46.1
(2024/09/15 02:57:02.00)	38.9	46.2
(2024/09/15 03:00:02.00)	41	44.4
(2024/09/15 03:03:02.00)	41.2	43.9
(2024/09/15 03:06:02.00)	41.8	47.2
(2024/09/15 03:09:02.00)	40.1	46.5
(2024/09/15 03:12:02.00)	41	49.8
(2024/09/15 03:15:02.00)	41.1	46.7
(2024/09/15 03:18:02.00)	42	52.1
(2024/09/15 03:21:02.00)	39.3	44.8
(2024/09/15 03:24:02.00)	38.6	45.3
(2024/09/15 03:27:02.00)	39.5	43.7
(2024/09/15 03:30:02.00)	38.1	42.1
(2024/09/15 03:33:02.00)	37.9	43.2
(2024/09/15 03:36:02.00)	37.8	43.2
(2024/09/15 03:39:02.00)	39.8	46.1
(2024/09/15 03:42:02.00)	40.7	43.4
(2024/09/15 03:45:02.00)	41.4	44.3
(2024/09/15 03:48:02.00)	42	46
(2024/09/15 03:51:02.00)	41.5	46.6
(2024/09/15 03:54:02.00)	41.6	44.8
(2024/09/15 03:57:03.00)	41.5	44.8
(2024/09/15 04:00:02.00)	43.7	56.7
(2024/09/15 04:03:02.00)	43	54.2
(2024/09/15 04:06:02.00)	41.3	45.3
(2024/09/15 04:09:02.00)	41.9	45.2
(2024/09/15 04:12:02.00)	41.4	45.2
(2024/09/15 04:15:02.00)	41	45.2
(2024/09/15 04:18:02.00)	40.6	45.3
(2024/09/15 04:21:02.00)	39.6	47.7
(2024/09/15 04:24:02.00)	41.4	45.1
(2024/09/15 04:27:02.00)	44.5	57.3
(2024/09/15 04:30:02.00)	41.3	45.5
(2024/09/15 04:33:02.00)	41.5	44.4



(2024/09/15 04:36:02.00)	40.4	45.1
(2024/09/15 04:39:02.00)	40	46.2
(2024/09/15 04:42:02.00)	39.7	44.7
(2024/09/15 04:45:02.00)	41.5	43.6
(2024/09/15 04:48:02.00)	42.9	47.5
(2024/09/15 04:51:02.00)	43.4	47.2
(2024/09/15 04:54:02.00)	43.1	51
(2024/09/15 04:57:02.00)	41.7	50.8
(2024/09/15 05:00:02.00)	41.2	48.5
(2024/09/15 05:03:02.00)	45.6	60.9
(2024/09/15 05:06:02.00)	42.5	45.4
(2024/09/15 05:09:02.00)	43.2	47.9
(2024/09/15 05:12:02.00)	43.9	56.3
(2024/09/15 05:15:02.00)	42.1	47.7
(2024/09/15 05:18:02.00)	42.6	46.8
(2024/09/15 05:21:02.00)	44	50.7
(2024/09/15 05:24:02.00)	44.5	54.3
(2024/09/15 05:27:02.00)	43.3	47
(2024/09/15 05:30:02.00)	42.9	50.6
(2024/09/15 05:33:02.00)	43.6	52.2
(2024/09/15 05:36:02.00)	45.1	48.9
(2024/09/15 05:39:02.00)	44.7	48.1
(2024/09/15 05:42:02.00)	42.6	47.3
(2024/09/15 05:45:02.00)	42.3	47.2
(2024/09/15 05:48:02.00)	46.5	62
(2024/09/15 05:51:02.00)	45.6	51.6
(2024/09/15 05:54:02.00)	45.8	56.4
(2024/09/15 05:57:02.00)	45.1	52
(2024/09/15 06:00:02.00)	45.4	52.9
(2024/09/15 06:03:02.00)	45.6	55.5
(2024/09/15 06:06:02.00)	46.8	54
(2024/09/15 06:09:02.00)	46.7	49.8
(2024/09/15 06:12:02.00)	47.3	55.2
(2024/09/15 06:15:02.00)	47.3	55.2
(2024/09/15 06:18:02.00)	47.2	62.5
(2024/09/15 06:21:02.00)	45.6	49.9
(2024/09/15 06:24:02.00)	46.7	54.7
(2024/09/15 06:27:02.00)	46.9	54.5
(2024/09/15 06:30:02.00)	47.8	65.6
(2024/09/15 06:33:02.00)	49.6	69
(2024/09/15 06:36:02.00)	48.5	56.6
(2024/09/15 06:39:02.00)	49.1	54.3
(2024/09/15 06:42:02.00)	48.8	51.1
(2024/09/15 06:45:02.00)	48.8	56.2
(2024/09/15 06:48:02.00)	48.7	57.6
(2024/09/15 06:51:02.00)	48.6	57



(2024/09/15 06:54:02.00)	49	56.3
(2024/09/15 06:57:02.00)	48.8	55.8
(2024/09/15 07:00:02.00)	48.2	53.9
(2024/09/15 07:03:02.00)	48.1	56.8
(2024/09/15 07:06:02.00)	47.7	56.8
(2024/09/15 07:09:02.00)	48.4	57.1
(2024/09/15 07:12:02.00)	47.5	54.6
(2024/09/15 07:15:02.00)	49.1	56.9
(2024/09/15 07:18:02.00)	51.7	65
(2024/09/15 07:21:02.00)	51	64.2
(2024/09/15 07:24:02.00)	51.6	61.3
(2024/09/15 07:27:02.00)	50.9	58.7
(2024/09/15 07:30:02.00)	69.6	95
(2024/09/15 07:33:02.00)	49	61.3
(2024/09/15 07:36:02.00)	49.7	61.3
(2024/09/15 07:39:02.00)	52.8	61.2
(2024/09/15 07:42:02.00)	50.3	60.4
(2024/09/15 07:45:02.00)	50	64.4
(2024/09/15 07:48:02.00)	52.4	73
(2024/09/15 07:51:02.00)	50.6	67.3
(2024/09/15 07:54:02.00)	49.6	61.5
(2024/09/15 07:57:02.00)	51.1	69.5
(2024/09/15 08:00:02.00)	51.1	63.8
(2024/09/15 08:03:02.00)	51.1	58.1
(2024/09/15 08:06:02.00)	49.9	56.5
(2024/09/15 08:09:02.00)	50.9	68
(2024/09/15 08:12:02.00)	49.9	56.9
(2024/09/15 08:15:02.00)	50.5	61.4
(2024/09/15 08:18:02.00)	50.1	60.3
(2024/09/15 08:21:02.00)	49.7	56.4
(2024/09/15 08:24:02.00)	50.3	57.5
(2024/09/15 08:27:02.00)	50.3	65.3
(2024/09/15 08:30:02.00)	50.6	60.8
(2024/09/15 08:33:02.00)	49.1	55.9
(2024/09/15 08:36:02.00)	49.5	65.3
(2024/09/15 08:39:02.00)	49.3	60.4
(2024/09/15 08:42:02.00)	51.1	64.8
(2024/09/15 08:45:02.00)	46.8	61.9
(2024/09/15 08:48:02.00)	47.2	54.5
(2024/09/15 08:51:02.00)	48.2	55
(2024/09/15 08:54:02.00)	47.7	61.3
(2024/09/15 08:57:02.00)	49.6	65.3
(2024/09/15 09:00:02.00)	50.2	64.7

